

THE DEVELOPMENT OF THE MATERIAL RESOURCES OF THE SOUTH.

Vol. 6. No. 13. WEEKLY.

BALTIMORE, NOVEMBER 8, 1884.

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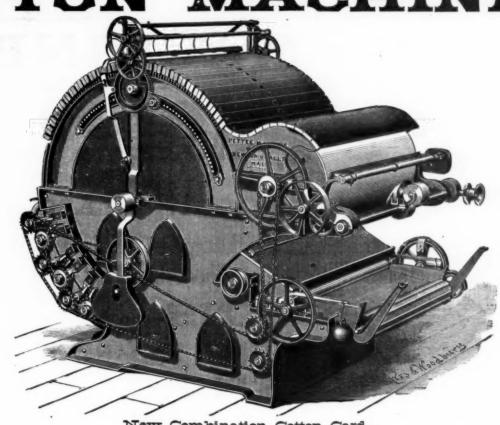
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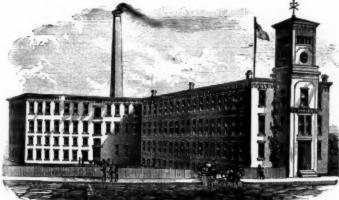
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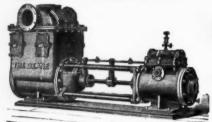
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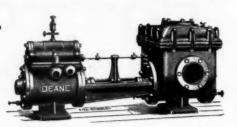


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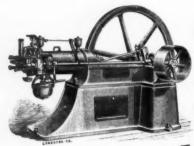


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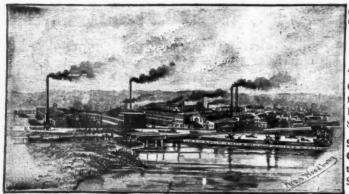
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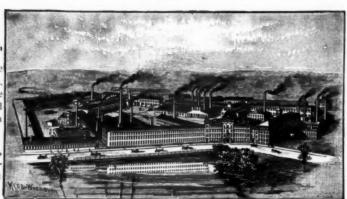
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Manufacturers' Record.

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BALTIMORE, NOVEMBER 8, 1884.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. We invite those interested in the development of the South to make free use of our columns. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more,so if you desire to attract immigration or capital, or if you know of an opening for profitable investment in manufacturing, mining or kindred pursuits, write us an account of it. It will be published free of cost.

COMMENTING on a letter from Lexington, Va., showing the rapid progress of that town during the year, the editor of The Virginias, of Staunton, says:

"What is above said of Lexington is equally true of Staunton, and of nearly every town and village in Virginia. We have never known so much building of new dwellings and business houses and repairing of old ones as has been going on this year. The State is "dressing up" as she was never "dressed up" before. The farmers are not only putting their houses in order but their farms and farm buildings as well. The cheering prospect of thrift and plenty that meets the eye all over the Commonwealth, is one cheering to the patriotic heart."

Immigration to the South.

From present indications the immigration to the South this winter will be much greater than ever before, and we are glad to know that the Southern people are becoming more and more impressed with the importance of attracting immigration. There is a wide and profitable field open for Northern and Western farmers who desire to remove to the South, and the people of that section do well to give all possible encouragement to this class, and yet there is a limit, beyond which it is not wise to go in this direction. Time and again have we urged upon Southern people the absolute necessity of taking the most vigorous steps to increase the nonagricultural population of the South by building up the industrial interests of that section, that the danger of still further increasing the proportion of food producers to food consumers may be avoided. In a late issue the Current, of Chicago, discussing the efforts now being made to increase the tide of immigration to the West, "It is the duty of those who hold the fate of the great West in their hands to apply all haste to the establishment of manufactures, as that is the only possible palliative to the great ill which besets humanity, -the "plurisy of people." If such action is needed in the West, where manufactures are already so largely developed, how much more important is it that the South should be working even more earnestly than during the last few years towards building up her manufacturing and mining interests.

With thousands and tens of thousands of Western and Northern people, as well as many foreigners now looking towards the South as their future home, and with every indication that the New Orleans Exposition will mark the beginning of a new era in Southern affairs, and especially in immigration, it behooves the business men and the statesmen of the South to see that earnest efforts are made to so adjust and develop the varied agricultural and industrial interests of their country, that all who come may find an opening for their energy and enterprise. It will not do for the people of Florida, for instance, to base all the claims of their State for immigration upon orange growing, though this is without doubt a most profitable business, for Florida should attract a larger number of immigrants than can possibly be profitably engaged in orange culture. It must be shown that there are dozens of other industries, agricultural and manufacturing, that offer equally as great advantages as an orange grove, and, by keeping this fact before the country, the danger of every settler in Florida rushing into orange growing will be avoided, and the development of the State will be more uniform and permanent than it otherwise would be. As with Florida, so with all the other Southern States. It will be a

mistake to centre all interest in Alabama in coal mining and pig iron making, and so will it be if too much attention is given in Georgia and the Carolinas to cotton manufacturing, to the neglect of other industries. South needs diversity in its agricultural interests, and care must be taken that there is diversity in the development of its industrial interests. Immigration is essential to the progress of the South, and should be heartily encouraged, but at the same time there ought to be well-directed steps taken to properly utilize that immigration towards a healthy and permanent building up not of any one or two interests only, but of the whole South, and all its vast and varied industries.

A New Dodge.

Within the last 'few days we have seen many very curious letters and circulars, some of which have been sent us by mail and others brought to us by our advertisers. have also received more than one call from parties who are advertising, who have recently had a very curious experience in receiving inquiries for their catalogues or special circular, from a wide range of country, these calls immediately following each other within a very few days and from a wide region of country. The secret of this has now fully leaked out. Letters are written, printed slips, postal cards and other means of instigating inquiries emanate from the office of certain papers, who for the present may remain nameless, to subscribers, advertisers and to the recipients of sample copies, asking them to send to certain parties for their catalogues, circulars, or price lists. course is all legitimate, but it is a dishonest move in its inception. The parties in question, the managers of the papers from whom these bogus inquiries emanate, are anxious about this time to make a good return of their circulation, and to stimulate inquires in order to secure advertisements for the next -Manufacturers' Gazette.

[Something of this kind was lately brought to our attention. Two Baltimore houses advertised in a trade paper and shortly thereafter one of them received a letter from a Southern city in answer to his advertisement, asking for an estimate on the building of an extensive mill. So well pleased was he at the prospect of a big job that he went around the corner to tell his friend, who also advertised in the same paper, of his good fortune. This friend was likewise in excellent spirits, for he too had received a letter referring to his advertisement and asking for the price of a big engine. Comparing letters they found both to be from the same party and worded almost exactly alike. That aroused a little suspicion, and so as one of them was going to the city whence the letters came in a day or two, he concluded to investigate. He did so and found that both letters were written by a boy at the request of the publisher of the paper. Here-after the advertisements of those firms will not appear in that paper.]

THE big machine shops at Roanoke, Va., known as the Roanoke Machine Works, are to increase their force. It is expected that these shops will employ 1,000 men when general business becomes active again.

UNITED States Consul Carroll at Palermo writes to the State Department that he is in constant receipt of circulars and catalogues, printed in English, sent out by American firms, who request that they be distributed in that city, and he very justly calls attention to the waste of time and money in sending English printed matter to people who cannot read it. If American manufacturers are unwilling to bear the expense of introducing their goods into foreign markets in a thorough business manner, it is folly for them to expect any foreign trade. A manufacturer might spend thousands of dollars in distributing an English printed catalogue among people who cannot read that language, and it seems that some of our manufacturers are doing just that thing, and yet he probably would not receive a single inquiry for his goods. It is a waste of money for our manufacturers to seek foreign trade unless they do it systematically, and with a determination not to be discouraged if they do not at once succeed. Spasmodic attempts to push their goods in a new country in which they are not known, failure to cater to the tastes of the customers that they seek, and bad packing which causes much complaint against American goods, will do our manufacturers more harm than good and simply result in financial losses.

THE Southern papers are very wisely urging their readers to sow wheat and oats. If Southern farmers would raise their own foodstuffs and not depend upon the West for their bread and meat, they would soon find their financial condition vastly improved. This fact cannot be too strongly impressed upon every farmer in the South, and the Southern press is doing its section a great service when it persistently advocates diversified farming. There is independence and wealth in diversified agricultural interests that the all-cotton planter knows nothing of. A few planters here and there may grow rich on the all-cotton system, but history teaches that no people as a whole can be permanently prosperous where all interest is centered in any one crop, whether that crop be wheat, corn. tobacco or

THE American, of Cartersville, Ga., has published an excellent 8 page Tr de Review, showing the advantages for mercantile and for manufacturing business possessed by that town. The American also devotes much space to a review of the resources of Bartew County in which Cartersville is located.

As it is impossible for President Arthur and the heads of executive departments at Washington, to be in New Orleans on December 1st, the managers of the New Orleans Exposition have decided to postpone the opening day to Tuesday, December 16th, as it is particularly desired that the President shall attend the opening ceremonies.

Pig Iron Production in the South.

That the South posesses very superior advantages for making pig iron is everwhere admitted, and yet we are not of that number who predict that all Northern furnaces will be driven out of existence by Southern iron makers. Moreover, such a condition of affairs is not to be desired, even by the warmest advocates of Southern progress. This country is too big for any one section to monopolize any great industry, and while the South will make rapid progress in pig iron production, other sections will continue in the same business. Many Northern furnaces now out of blast will never go in again, and doubtless some that are now at work will after a while give up the struggle, and cease to make pig iron.-These failures are to a considerable extent due to unfavorable locations, or lack of the most improved labor and money saving machinery, but there are other furnaces at the North that are so well situated and so ably managed that they can produce pig iron at a profit even at the present low prices. These furnaces will continue in successful operation.

The South's advantages are very great, and are sure to be improved, so that we may confidently predict a steady increase in the production of pig iron in that section, and the proportion of iron produced in the South as, compared with the total production in the country will show from year to year a steady increase. The Southern States are to be the centre of great industrial activity for many years to come; mills, factories, foundries, and manufacturing enterprises of almost every kind will wonderfully increase in number and capacity in the South, while many thousand miles of railroad will be built. All these things will require iron, and to supply that iron the South will need more furnaces than it now has. The MANUFACTURERS' RECORD has persistently advocated the building up of more diversified industries in the South that use pig iron as a raw material, and this is now being done so rapidly that in a few years much of the pig iron produced in the South will be manufactured there into agricultural implements, stoves, &c. At present Southern furnaces, to a very large extent, labor under the great disadvantage of being compelled to find a market elsewhere for their products, often at an expense for freight of from \$2 to \$5. or \$6 a ton. Despite this heavy tax which Northern furnaces, situated near the consuming markets do not labor under, the principal Southern furnaces with very few exceptions have remained in blast (or gone out only for a short time for repairs) during the long depression in the iron trade. With the growth of diversified manufactures in the South there will be an increased home demand for Southern pig iron, and Southern furnaces will be relieved in part of the heavy freight expenses under which they now labor. With a view of showing the increase in the

roductive capacity of Southern furances during the last few years, we have compiled from the directory of the Iron and Steel Works of the United States the following statistics. be understood that the total capacity of the fur-naces in the South, or in the whole country as given in the directory, is not intended to mean the amount of iron actually made. These figures represent the total capacity of the furnaces, These figures provided they were all continously at work, but The total capacity this, of course never occurs. The total capacity of all the furnaces in the South whether in or out of blast on July 25, 1882, and Sept. 1, 1884, was as follows:

Maryland86,	500 87,100	600
Virginia 146,	500 316,600	170,100
West Virginia 125,5	00 154,500	20,000
North Carolina 11,2	17,800	6,600
Georgia 43,6	100 54,600	11,000
Alabama 257,5	00 363,300	106,800
Texas	7,000	7,000
Tennessee 183,0	368,500	
Kentucky 77,2		15,200
Total	100 1.461.800	538.800

As shown by these figures the largest increase during the two years was made by Tennessee, the gain in that State being 185,500 tons; Virginia follows second with a gain of 170,100 tons, and Alabama third with 106,800 tons. While Tennessee made the largest aggregate gain, Virginia scored a heavier percentage of increase, showing a gain of 116 per cent. against 101 per cent. Tennessee. The percentage of gain for the whole South during the two years under review was 57 per cent., against a little over 10 per cent. increase in all other parts of the country, the Southern States showing an advance in productive capacity from 931,000 tons in 1882 to 1,461,800 tons in 1884, an increase of 531,800 tons, while in the rest of the country the gain was from 7,069,000 tons to 7,838,200 tons or 769,200 tons. Among the more important furnaces in the South that have been completed since 1882 are the Crozer at Roanoke, Va., capacity 35,000 tons a year: Gem at Milnes, Va., capacity 30,000 tons; Princess at Wilton, Va., 10,000 tons; Victoria at Goshen, Va., 50,000 tons; Alice No. 2 at Birmingham, Ala., 40,000; Pratt, at Birmingham, 15,000 tons; Woodward, Wheeling, Ala., 30,-000, tons: Bettie, Charleston, W. Va., 10,000 tons; Citico, Chattanooga, Tenn., 30,000, and two furnaces now under construction at Dayton, Tenn., by an English company, that will have an aggregate capacity of 100,000 tons. A large number of furnaces have been projected in different parts of the South and there are probably at least a dozen companies that as soon as the present depression in the iron trade has passed away will at once commence the erection of large furnaces. The following is a list of all the furnaces in the LOCATION.
ANTHRACITE. MARYLAND.

Ashland	5,000
BITUMINOUS. Sharpsburg	5,000
Sharpsburg	
CHARCOAL,	
Catoctin Furnaces. J. B. Kunkel. Baltimore. Baltimore Iron Co. Baltimore. D. M. Reese & Sons. Green Spring Furnace. J. B. Haines & Co. Harford Furnace. H. W. Archer and others. Fo. Baltimore. D. M. Reese & Sons. Rossville. Furstenburg & Adler. Baltimore. H. W. Ellicott & Son.	5,600
Rossville Pursteining & Auter Baltimore H. W. Ellicott & Son Muirkirk Charles F. Coffin Principio. Geo. P. Whitaker.	2,000 12,000 4,200
Baltimore Stickney Iron Co. (2 furnaces)	11.000
	· a your
COKE. VIRGINIA.	
Buffalo Gap	9,000
Mil-	
Millies. Longdale. Longdale fron Co. Low Moor Low Moor Iron Co., of Va. Lynchburg Lynchburg Iron Co. Henrico County. Phila. & Reading Coal and Iron Co. Wilton. D. S. Cook. Goshen Iron and Steel Works Ass'n, of Va. 5	19,000
Lynchburg Iron Co	4,000
Henrico County Phila, & Reading Coal and Iron Co	9,000
Goshen Iron and Steel Works Ass'n, of Va	0,000
CHARCOAL.	0,000
	0.500
Reed Island C. B. Squier	2,500
Snowden S. F. Jordan's estate. Reed Island C. B. Squier. McTeer Robert Sayers.	3,500
Graham's ForgeGraham & Roomson	
Crockett DepotCrockett & Co.	2,000
Crockett Depot. Crockett & Co. Crockett Depot. Crockett & Co. McTeer. Crockett & Co. Glenwood. F. T. Anderson Craig's Creek Tredegar Co. Crockett Depot. Slaughter, Dunn & Co. Ivanhoe Furnace New River Mineral Co. Loyal Depot. Co. Loyal Depot. Co. Loyal Car Wheel Co.	7,500
GlenwoodF. T. Anderson	2,000
Crockett Depot	1,600
Ivanhoe Furnace New River Mineral Co	8,000
Red Bluff Lobdell Car Wheel Co.	8,500
White Pack Furnace Lobdell Car Wheel Co. 1	0,500
Water Lick Knauer & Morret	3,500
Alexandria Powells Fort Mining Co.	3,000
Weyer's Cave. Abbott Iron Co	
Foster's Falls Foster's Falls from and Manfg. Co	2,000
	2,000
Salisbury Furnace Salisbury Iron Manufacturing Co	1,000
Van Buren FurnaceFrank King	2.500
Reed Island (For Co. Salisbury Furnace, Salisbury Furnace, Salisbury Furnace, Salisbury Furnace, Sinking Creek Iron Works. Van Buren Furnace Frank King. 2 Waynesboro Virginia Furnace. Graham's Forge Crockett, Oglesby & Co.	1,500
COKE. WEST VIRGINIA.	
WheelingBelmont Nail Co	3,000
Raccoon F. Nemegyer	0,000
QuinnimontQuinnimont Coal and Iron Co 12	2,000
Wheeling Riverside Iron Works 40	,000
Raccoon	,000
CHARCOAL	

CHARCOAL. NORTH CAROLINA.	
Lockville	· 7,000
Core CEOPCIA	. 1,20
Rising Fawn	. 30,000
CHARCOAL. Cedartown	11,00g
Certersville. W. P. Ward Etna Etna Furnace Co. Hermitage Hermitage Furnace Stump Creek Thomas & Brown	3,000
COKB. ALABAMA.	. 3,6c
BirminghamAlice Furnace Co. (2 furnaces)	4,500
Brierneid Coat and Iron Co. Woodstock Edwards Iron Co. Oxmoor. Eureka Company. Birmingham Mary Pratt Furnace Co. Birmingham Sloss Furnace Co. (2 furnaces). Wheeling. Woodward Iron Co.	30,000
Jenifer . Clifton Iron Co. Irona . Clifton Iron Co. Gadsden . Coosa Furnace Co. Cedar Bluff . Hugh McCulloh. Rock Run . Bass Furnace Co. Round Mountain . Round Mountain Iron Works. Shelby Iron Works . Shelby Iron Co. (2 furnaces). Rock Run . Stonewall Iron Works. Tecumseh . Tecumseh Iron Co. Anniston . Woodstock Iron Co. (2 furnaces).	7,500
GadsdenCoosa Furnace CoCedar Bluff. Hugh McCulloh	7,200
Rock RunBass Furnace Co	7,000
Shelby Iron Works Shelby Iron Co. (2 furnaces)	20,000
Tecumseh Tecumseh Iron Co	14,000
Anniston	20,000
Rusk	4,000
BITUMINOUS OR COKE. TENNESSEE.	3,000
Chattanooga Chattanooga Chattanooga Citico Furnace Co. Dayton *Dayton Coal & Iron Co. (2 furnaces). Jenks Oakdale Furnace Rockwood Roane Iron Co. Cowan Tennessee Coal, Iron and R. R. Co. South Pittsburgh Tenn Coal, Iron & R. R. Co. (2 fur.)	30,000
CHARCOAL.	
Taylorsville	2,000 6,000
Carter's Furnace. Knoxylie Car Wheel Co. (2 Turnaces). Union Depot. Jenkins, Hodge & Co. Stewart County Cumberland Iron Works. Cumberland Furnace. Dronillard Iron Co. Stribling. LaGrange Iron Co. Chief P. O. Napier Iron Co. Nashville. Warner Iron Co.	5,000 4,000
Chief P. O	4,000 12,000
BITUMINOUS OR COKE. KENTUCKY.	_ 1
Ashland	20,000 17,000 20,000
AshlandMeans, Russell & Means	3,000
Hunnewell Eastern Kentucky Railway Co	6,000
Mount Savage Joseph S. Woolfolk	700
Greenup Raccoon Mining and Manfg, Co	4,000
Olympian SpringsButh Furnace Furnace P OCentral Ky. Land, Mining, Manfg.	
Furnace P. O	3,000
CHARCOAL. Ashland	3,000 5,700
Trigg Furnace P. O Trigg Furnace* *Building.	6,000

A Typical English Mill Man.

Mr. John Butterworth, an English expert of some pretensions, was present, and being called upon as an invited guest entered into a wholesale denunciation of American machinery. His opinions having excited some controversy, he replied: "As I am an Englishman and intend to ever remain so, I hope you will continue as you are. It will be so much the better for us." Subsequently, under the skillful cross-questioning of the President and others, he revealed the fact that many American ideas are being adopted in England after all. He asserted at first that the only American card he had ever seen in England was a Foss & Pevey sent over there as a curiosity; but upon being pressed with the question of whether cards of American pattern had not been built in England, and whether the Wellman stripper had not been built there to such an extent as to have yielded Mr. Wellman a considerable revenue, he was forced to admit that they had. He also stated that the cost of labor in preparing and spinning a pound of No. 32 yarn was 0.9d., or about 1.8 cents, and Mr. Parker of the Pacific Mills and others showed that the cost of the same work was no more than that in many mills guest entered into a wholesale denunciation of American cost of the same work was no more than that in many mills in this country, although so much higher wages were paid

here.

It was generally admitted, however, that the English manufacturers make better yarn from poor cotton than is made in this country. Mr. Butterworth stated that 90 revolving top-flat cards in an English mill were tended by five men and a boy and produced 720 pounds per card per week.

WAS THE CONCENSUS

of the meeting—Mr. Butterworth excepted—that American spinning and weaving machinery was far superior to English. Mr. Garced stated that No. 40 yarn is being sold in England at 1834 cents a pound, and Mr. Redfern added that No. 32 yarn is produced there at 16½ cents. The question was asked amid much laughter whether the English operatives enjoyed producing the yarn at that price. The association and Mr. Butterworth had some amusing talk over the assertion that this was a great country, and the inhabitants were aware of the fact to an extent painful to visitors. But further skillful questioning showed that a similar peculiarity is not unknown in England. Mr. Butterworth said that American manufacturers were, so anxious to have everything "American" that they couldn't even adopt a piece of English machinery without altering it over so as to call it "American." But he had previously admitted that the English mills had manifested the same disposition in their use of the American card, and it was further shown that English ideas, in regard to spinning machinery, had been vastly improved in this country.—From Boston Commercial Bulletin's report of the Cotton Manufacturers' meeting. Manufacturers' meeting.

Notes * From * Dixie.

BY CHAS. H. WELLS.

Mr. R. A. Williams, of the Memphis and Little Rock Railroad, writes me that the record of Memphis, Tenn., for the present year surpasses any previous one since the war. "Especially is this true," he says, "of its manufacturing resources, embracing every class and variety. In the past year we have had two new railroads coming in, opening up the natural resources of Arkansas, Louisiana and Mississippi, while at least half a dozen more are now projected and under contract. We owe a great deal to Northern energy and Northern capital, and it will always receive a warm and hearty welcome from the 'City on the Bluff,'"

This letter from Memphis is gratifying in the extreme. A few years ago this handsome city, now one of the cleanest and most beautiful of all the Southern marts of trade, was synonymous with yellow fever, "plague, pestilence and famine," et cetera. The system of drainage recently introduced has made the city a model of cleanliness and sweetness. From the Peabody House in either direction for a score of blocks everything is as neat as a pin, and reminds one of Washington, so clean are the streets and pavements. Mr. Williams tells me that the road which he represents has now a through car service by way of Memphis, from Atlanta to Little Rock, which is a great accommodation for emigrants, tourists and commercial men who make long journeys.

All the Southern railroads seem to have become infused with new life since the first of October. Major O'Brien, of the East Tennessee, Virginia and Georgia Air Line, tells me that his road now has a feature possessed by no other railroad in Dixie,—five quick passenger trains each way daily. This is quite like some of the great Northern trunk lines and would seem to indicate that the E. T. V. and G. is making a great stride forward.

. . . Few people have any idea of the amount of fine timber now standing in North Carolina. An agent of the Estey Organ Company, of Brattleboro, Vermont, has been in correspondence with several parties in the Western portion of the "Old North State," trying to buy half a million feet of the black walnut that is so much in demand for cabinet work now-a-days. The owners of the logs were willing to sell the unsawed timber at \$60 a thousand feet delivered, a very moderate price. A vast quantity of the North Carolina walnut is sent to Philadelphia and exported to France for use in furniture and fine cabinet work in Paris. It is shipped to Havre and sold there at a profit of sixteen per cent. on the gross amount in-

Traveling men all through the South complain that politics have been so interesting as to prevent the sale of goods. When there is a political speaking all the tradesmen close their shops, and the traveling man meets with but little encouragement. One agent for a large hardware house in Baltimore says he has lost the sale of at least \$30,000 of goods through the political excitement now prevailing.

Some of the newspapers ought to preach against the growing custom in the South of accumulating large sums of money and putting it away in a safe. The other day while at Lexington, N. C., I had occasion to transact some business with a gentleman of reputed wealth. He opened an old, primitive safe standing in one corner of his bed-

room and brought out over \$10,000 in gold and notes. There were several bags of \$20 gold pieces, a bundle of \$5 and \$10 bills that would have filled a small pillow-case, besides any quantity of bank notes of larger denominations. It is this gentleman's boast that he always keeps from \$10,000 to \$20,000 in currency on hand, althought his expenses for living are not above a thousand a year. Some day a cracksman will come along and blow open that old safe and put the money in circulation again.

Mr. J. C. Fitzgerald, of Greenville, S. C., a photographer of considerable reputation in the Palme:to State, has invented a machine, worked by compressed air, for instantaneous photography, whereby a picture can be taken in less than one-fifth of a second. Those who, that future generations may gaze upon their physiognomy, have sat for half an hour with a cold iron brace jammed in the back of the neck and with various other mechanical devices applied to other portions of the anatomy in order to secure a graceful position, will appreciate the advantages of Mr. Fitzgerald's invention. It is to be patented and will doubtless yield a hand-some return

Mr. C. F. Demmer, of New Haven, Conn., with the Marlin Fire Arms Company, writes me that he has 10,000 acres of fine pine timber land in Emanuel County, Georgia, that he is anxious to dispose of. He will sell the timber alone, if desired, and retain the land, or will sell both. Any communications to Mr. Demmer should be addressed to care of box 229, New Haven. The land he offers to sell is in a good lumber region, and if the prices are reasonable, would be a fine investment for an energetic man with some capital and a good deal of pluck.

George B. Douglas, Esq., managing editor of the Buffalo, N. Y., Lumber World,-the standard journal among lumbermen, spend a month in the South, visiting all the principal points of interest in Dixie. This visit will probably result in the investment of considerable Northern and Western capital, should Mr. Douglas happen to be pleased with the lumber country he contemplates visiting,-and it is safe to say he will be delighted. The Lumber World has for some months past devoted several of its columns to full descriptions of the timber lands in Georgia and the Carolinas, and has been the means of drawing to this part of the country a good deal of money.

The gold mining company, recently formed in New York by Cyrus W. Field and other wealthy capitalists, who contemplated working up the various mines in the vicinity of Spartanburg, S. C. and Tryon City, N. C. seems to have fallen into the shade within the last few weeks. Mr. Dumont, the expert who was sent to examine the mines, was favorably impressed, but as yet the moneyed men seem to have formed no plans of action. Some of the gold ore from Tyron City was exhibited at the Raleigh exposition by Mr. Armstrong, a practical miner, and attracted considerable attention. The metal is found in quartz and often in small nuggets in the bed of the mountain streams. Some of the chunks of pure gold displayed weighed three or four ounces, and were much admired by the mineral hunters and by the ladies.

DRIFTWOOD.

There are several good openings for banks in the South—at Lexington, N. C.; at Laurens, S. C.; at Statesville, N. C.; and at Greenwood, S. C.—Money loaned on first class real estate brings on an average of ten per cent. a year in the Piedmont region of South Carolina.—A firm of Richmond druggists sold \$130,000 worth of quinine in

the Southern States last year, and during the present season the increase over that sum will be thirteen per cent,-A newspaper genius in Asheville, N. C., has started a newspaper called the Exlavigator; translated it means "to hit with a brick." The word is of Irish descent.--Dust six inches deep has had the effect of keeping people away from the State Fair at Charlotte, N. C .-The project to build a big hotel that will cost \$500,000 at Asheville, N. C., is being revived.—Parties who desire to communi-cate with the writer of the "Dixie Notes" should address box 160, Greenville, S. C., thus obviating delays and ridding the publishers of this paper of the trouble of remailing and forwarding letters. all kinds is so plentiful in Catawba County, N. C., that sportsmen count ten dozen birds a poor afternoon's work .- The new "Kimball House," in Atlanta, is rapidly approaching completion. When finished, it will be one of the finest hotel buildings in the

Tin Plate Guaranty Again.

The Reporter lately spoke at some length of the resolution of Merchant & Co., Philadelphia, to hereafter 'fguarantee' their tin plates to all buyers. We are glad to know that this change to a better plan from the present generally unsatisfactory one has met with a prompt financial reward. The London Ironmonger, of Oct. 14th, through its American correspondent, speaks of the same matter, and specially commends the action of Merchant & Co. in taking a lead in what it asserts will inevitably soon become the rule with tin plate dealers in America. The need of a reform in the matter of brands has long been admitted. The whole conventional nomenclature of the tin plate trade has gradually fallen into disrepute. Consumers long ago discovered that very few brands can be regarded as possessing specific value as quality indication, and that grade quotations are still more misleading, encouraging all kinds of trick and fraud on the part of unprincipled dealers.

The American concludes in the Ironmon-ger, as follows: "The effect of the guarantees (given by Merchant & Co.) upon their trade has been very remarkable. The sales have been immense, especially of the 'Camarat,' which is a strictly first-class roofing plate, and they are very much more than satisfied with the result of their experiment so hesitatingly ventured in response to the clearly expressed demand of the trade. Other houses are making preparations to follow their example as rapidly as possible, and the competition at present is in quality of the fine plates offered, each house in the trade making its leading specialty of one or more plates of proved excellence in which conumers can feel entire confidence.

The trouble with the trade in this country is chiefly due to the difficulty which perfectly responsible houses have in making direct connections with manufacturers, makers are so entirely under the control of the Liverpool factors that they are unable or unwilling to enter into direct relations with importers here, and consequently importers have very little chance to control the quality of the supplies they purchase, and are entirely dependent upon such knowledge as they gain from experience with different brands This is a most unsatisfactory condition of affairs, as it renders it impossible for them to know much about their stock or to able to make any representations concerning it in which dealers can feel confidence. lowering of the standard of a brand can only come to their knowledge through the complaints of consumers, and the only recourse which the importer has to protect his reputation is not to order any more of that kind of plate. He is, however, quite liable to be victimized on the next shipment, and so it goes on year after year. The fortunate position of Merchant & Co. grows out of the fact that they have been able to make direct \$16.66% per tree.

relations with Gilbertson, and are advised of everything concerning the quality of the plates they receive from that source."—Stove and Hardware Reporter.

The New Orleans Exposition.

In a description of the work that is now being done on the Exposition buildings, the New Orleans Times-Democrat says of the machinery department that it has "a motive power of twenty batteries of steam boilers, driving twenty-four steam engines, aggregating 5,200 horse-power. The boilers are now nearly all in position, and some batteries are now ready to get up steam. The foundations of the principal engines are completed, the engines have been shipped and are arriving daily. The largest engine ever erected in Louisiana) is a Corlis a engine of 650 horse-power, from the works of the Harris Corliss Company, Providence, R. I.

The work to be done by these twenty-four engines comprises driving 11,000 feet of shating, furnishing power to exhibitors, and upward of forty dynamos for the Edison, Brush and Louisiana Electric Light Companies, which will require about 2,000 horse-power.

THE WATER SUPPLY

consists of two compound duplex Worthington pumps, having a capacity of 4,000,000 gallons in twenty-four hours. They are located in a special pumphouse at the southwest corner of the park, next to the river. The entire plant is complete, and steam was raised there yesterday.

This plant distributes the water through apward of five miles of pipe, which is all laid and ready to receive the water, which will be turned into them on Sunday next. This system of pipes furnishes water to every building in the park, and also supplies the numerous fountains in the grounds. The main building alone contains over 10,000 feet of water pipe, with fifty-six fire hydrants so distributed that five streams of water can be turned on to any point in the main building at fifteen seconds notice. The government building is equally well protected, besides which there are large pumping engines arranged to throw water at call, both on the expositon buildings and many of those outside the grounds,

The shafting consists of cold rolled shafting mounted in pillow blocks and hangers, all with universal joints. The lines of shafts are coupled every 200 feet by universal couplings. The shafting is all completed, its foundations all lined and leveled, and is being put up at the rate of 1,500 feet a week. A large portion is already erected, and the balance will be in place by Dec. 1.

being put up at the rate of 1,500 feet a week. A large portion is already erected, and the balance will be in place by Dec. 1.

A large saving has been effected by the Board of Managers of the Exposition in not purchasing the steam-power for driving the machinery; the Centennial Exposition paid \$150,000 for this purpose, whereas the power has all been secured free of cost for this Exposition.

THE St. Louis Age of Steel claims that there is altogether too much red tape about the installation department of the New Orleans Exposition, and the charge seems to be well sustained by the publication of letters that passed between the chief of that department and the Simmons Hardware Co., of St. Louis. If the exposition is to be a success, it will be necessary to get rid of all useless red tape.

A Tennessee editor has suddenly become rich by a sale of timber. A. S. Horsley, an editor of Columbia, Tenn., and W. P. Ingram of the same city, have sold to an Ohio man, 7,360 walnut trees in North Carolina and Georgia for \$122,667, an average of \$16.66‡ per tree.

***CONSTRUCTION DEPARTMENT.

E PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

H. T. Beggs, Sr., Birmingham, Ala., will build a stove foundry.

A \$10,000 court house will be built in Jasper, Ala. J. B. Shields can give particulars.

F. M. Robinson, of Conneautville, Pa., is shipping the machinery in his planing mill at that place to Florida, where he will erect a new mill.

A new steam laundry is being put up in Bartow, Fla.

An Edison Electric Light Co, is talked of in St. Augustine, Fla.

The machinery of the Tampa Lumber Co., Tampa, Fla., was lately injured by a serious accident, necessitating considerable repairs. GEORGIA.

A.G. Vandyke, Sunny Side, Ga., is making good progress in the erection of his saw mill and crate factory.

The Gainesville Match Factory, Gainesville, Ga., will increase its capacity.

The Bainbridge Lumber Co., whose saw mill at Bainbridge, Ga., is reported in this issue as burned, involving a loss of \$75,000, will rebuild at once.

KENTUCKY.

I. D. Cook, of Toledo, Ohio, the contractor for the water works at Lexington, Ky., expects to finish by November 20

A large soap factory is probable in Lex-

The Anniston & Northern Railroad Co. previously reported, has been incorporated, and the stock all subscribed for. W. H. Adams, Louisville, Ky., is president.

C. E. Martin & Co., tobacco manufacturers, Owensboro, Ky., have been incorporated with a capital of \$75,000.

Ira Pendleton & Co. will remove their saw mill to Flat Gap, Ky., shortly.

The Champion Ice Co., Covington, Ky., will put in a 50 ton ice machine.

LOUISIANA.

The Denver & New Orleans Railroad Co., office in Denver, will, it is reported, extend their road to New Orleans.

The Star & Crescent Fibre Mills, of New Orleans, La., lately mentioned, will probably be incorporated with a capital of \$150,000.

John T. Braun, of New Orleans, has prepared plans for a large skating rink, to be erected in that city by Ira Daniels, of New

MARYLAND.

The Baltimore Car Brake Co., capital \$200,000, has been incorporated in Baltimore, Md., by Wm. T. Adams, Wm. Brumble, L. N. Cox and others, to manufacture car brakes.

MISSISSIPPI.

The Meridian Phosphate Co., of Meridian, Miss., the organization of which was lately reported, will not only manufacture fertilizers, but will purchase machinery for working fire-clay beds, and for manufacturing spokes, handles. &c.

It is reported that a \$200,000 cotton factory will be erected in Aberdeen, Miss., if \$75,-000 can be secured in that town,

Payne, Lunn & Morris, Winston, N.C., will build a large tobacco factory.

E. A. Snow & Co., High Point, N. C., have ordered machinery for their sash and door factory, previously reported.

W. P. Ingram and A. S. Horsley, of Columbia, Tenn., have sold a lot of walnut timber in North Carolina, to a Mr. Musetter of Portsmouth, Ohio, for \$122,667.

TENNESSEE.

A joint stock company has just been organized under the name of the Barker Manufacturing Company at Knoxville, Tenn., with Frank Barker, president, J. H. Barker, treasurer, and H. N. Saxton, Jr., secretary, The company is now at work erecting buildings and adding the latest improved machinery for manufacturing cedar buckets, candy and tobacco packing buckets, tubs and water pails, hoe and broom handles, etc.

There is talk of a saw and planing mill at Greenbrier, Tenn.

President John Scott, of the Queen & Crescent Route, is reported as promising to build the machine shops of that road at Chattanooga, Tenn., and says they will employ 2,000 men.

The Crawford Coal and Iron Co., of Fentress county, Tenn., has been incorporated for mining coal, manufacturing coke, iron, steel, &c., in Fentress, Overton and Scott

C. I. Dixion, Pulaski, Tenn., has completed his spoke factory, and expects soon to add a wagon factory.

Gibson, Lee & Co., M. M. Hope and Lown Bros., all of Chatanooga, Tenn., have organized a company to manufacture stoves castings, &c., also sheet metal goods, roofing,

The "Lookout Ice Co." has been incorporated at Chattanooga, Tenn., to build an ice factory.

The Tennessee Industrial Co. has been organized in Shelby County, Tenn., for the construction of railroads, etc.

A new opera house to seat 2,500 people will probably be built in Memphis, Tenn. Mr Rosenplaenter, 34 Madison street, Memphis, can give particulars.

Some Northern capitalists are negotiating for land at Columbia, Tenn., on which to build a pump factory. W. C. Jones, Columbia, can give particulars.

E. G. Mead, McMinnville, Tenn., has nearly completed his barrel factory, previously reported.

The Merrimac Land and Water Co., capital \$50,000, has been incorporated at Seguin, Texas.

The Texarkana Foundry and Machine Works, capital \$100,000, has been incorporated at Texarkana, Texas, previously re-

The Fort Worth & Denver Railroad promise to build 50 miles of road soon.

VIRGINIA.

A screw dock will be erected at Richmond, Va., Mr. C. P. E. Burgwyn being the engineer in charge.

Frey Bros., Berkeley, Va., will build a planing mill.

Click & Miller, Harrisonburg, Va., are increasing the machinery in their flour mill. There is some talk of erecting a large

flour mill at Farmville, Va, J. W. Goodhart, Lovettsville, Va., is build-

ing a saw mill.

R. G. Kirkpatrick has leased and will operate the Dill iron ore mines near Bell Valley Station. Chesapeake & Ohio Railroad,

The Arminius Copper Mines Co., near Tolersville Station, Chesapeake & Ohio Railway, Va., will erect a sulphuric acid plant to utilize 50 tons of pyrites daily. Will also enlarge mining operations.

The Low Moor Iron Co., Low Moor, Va., write to us under date of Sept. 30, that the directors have not yet positively decided to build the new furnace mentioned lately in the MANUFACTURERS' RECORD, though they are discussing the project.

WEST VIRGINIA.

Harman Lerner, of Mason City, W. Va. has leased iron ore property near Goshen, Va., and will develop it.

BURNED

Chas. B. Hammett's mill and gin, Spartanburg, S. C.; loss \$3,000.

Saw mill and gin of Crosland & Everett, near Rockingham, N. C.; loss \$4,000.

Saw mill of Jones Bros., near Meriwether, Georgia.

Ginnery of E. M. Parler, near Orangeburg, S. C.: loss \$2,500. Mill and gin of A. B. McLemore, Ellisville,

Miss. Canning factory of Wm. R. Young, Me-

chanicstown, Md; insured for \$9,000. Saw mill of Bainbridge Lumber Co. Bainbridge, Ga.; loss \$75,000.

In commenting on some statements lately made by Mr. John W. Bookwalter, the

American Miller, says: Without disputing Mr. Bookwalter's figures, we hardly think that those engaged in manufacturing can be called "a mere handful." There are many millions depending directly upon protected manufactures for a livelihood. Mr. Bookwalter ignores the home market, and assumes that while the farmer is obliged to sell his grain in Europe, in competition with the pauper labor of India, he is obliged to buy in the home, or dear market, such things as he may require. Nothing could be more fallacious. Only an insignificant percentage of our agricultural products is shipped abroad, and the home market is the great dependence of the farmer. If this "mere handful" of people engaged in protected manufactures should turn their attention to the "great manufacturing industries" and become farmers, how would either the farmers or the country at large be benefited?

With a still larger surplus to dispose of, prices for agricultural products would go still lower. Protection has diversified our industries, and brought markets to the farmers' doors. It can readily be proved that wherever manufactures have been established the values of farm lands have appreciated. Farmers understand these facts, and many of the older ones have had the opportunity to compare their condition under both protection and free trade. While many of them may believe the tariff is too high, we doubt if the simon-pure free traders among our agriculturists are very numerous.

A Short Line for Southern Trade and Travel Completed.

A dispatch from Philadelphia, Nov. 3, says: The New York, Philadelphia & Norfolk railroad was opened its entire length from Delma to Cape Charles to-day. The road affords a new and short connection for through Southern business, being 120 miles shorter than the present line to New York and making the trip in 10 hours as against 17 hours as at present. It traverses a country rich in farm products, and will develop a large territory. Transfer boat will connect with trains at Norfolk about the middle of this month, when a through line of Pullman cars will be put on. The company has in course of construction a fine iron steamer, which will be finished in March an will transport cars across Chesapeake bay to Norfolk.

New Manager for the Atlantic Coast Line.

Mr. Harry Walters, son of Mr. Wm. T. Walters, of this city, has been appointed general manager of the Wilmington and Weldon and Wilmington, Columbia and Augusta Railroads, in place of R. R. Bridges, resigned. The appointment took effect on the first of November. The roads mentioned comprise the whole Atlantic coast line ed comprise the whole Atlantic coast line from Richmond to Charleston, connecting at the latter city with the line to Florida and New Orleans. Mr. Walter's headquarters will be in this city. In connection with his father he has been largely interested in Southern railroads for some years, and especially in those comprising the Atlantic Coast Line. His management of these important roads will doubtless prove very satisfactory alike to the public and to the stockholders.

THE new Roberdel Cotton Mill, Rockingham, N. C., has commenced operations, and advertises that one hundred hands can find employment.

Louisville Iron Market.

Specially reported by GRO, H. HULL & Co., Com-mission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., Nov. 1, 1884.

The market continues quiet but very firm in tone. The large amount of Southern iron sold east has relieved most of the furnaces of their surplus, and they are now holding firm at full prices, knowing if the Western markets do not take their product that they can dispose of it East. Most of the Western buyers seem not to have fully realized the situation, and are holding off for still lower prices. Others however are contracting ahead. We quote:

Southern Charcoal, No. 1 Foundry.... Solver Gray, different grades Southern Coke, No. 1 Mill, Neutral...

The Covert Manufacturing Co., of West Troy, New York, write that since the advertisement of their "New" snap appeared in MANUFACTURERS' RECORD in August last, the demand for it has been extremely heavy and it is found to give perfect satisfaction. chain works of this company mentioned by us some time ago have proved a great success, and, notwithstanding the general depression that has been felt in that line throughout the United States, they have had to keep their factory hard at work to meet the demand. "Our other departments," the Covert Company writes, "are all running on heavy orders, which are increasing and, everything taken into consideration, the business outlook is flattering indeed."

LOCKWOOD, GREENE & CO. MILL ENCINEERS

Office, 65 Westminster St., Providence, R. I.

Carefully prepared plans, specifications ar mates furnished for the construction, equipm organization of new mills and the revision a provement of old

The Gardner Spring Governor.

We present on this page an engraving representing the steam engine governor, as recently improved; made by the Gardner Governor Co., Quincy Ill. In this governor two halls provide the centrifugal force, the centripetal or resisting force being two flat taper springs, one end of each of which is firmly attached to one of the balls, and the other end to a sleeve, which is rotated in the usual manner.

The balls are also connected by means of links to an upper sleeve which revolves with them, and is also free to move in a direction either up or down. An inspection of the engravings will make it plain that as the balls move—outwardly, for instance—their paths will be in arcs, with radius determined by the springs, and that as the links connecting the balls and sleeves are of a length materially less than the radius represented by the springs, the result will be to move the sleeve upwards. Similarly, a reverse, or inward, motion of the balls will move the sleeve downward. This sleeve, being con-

suitable connections, to open the valve; hence any change that is made in its initial tension will change the centripetal resistance, and hence the speed.

A sawyer's lever is attached, and a reliable automatic safety stop, when desired.

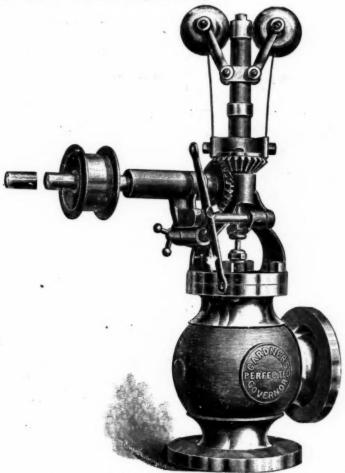
These governors are made by the duplication of parts, so that pieces can be furnished for repairs when required.

БНЕ МАРКЕТS.

OFFICE MANUFACTURERS' RECORD. A
BALTIMORE, Nov. 5, 1884.

The political excitement of the week has interfered very materially with business, and there is nothing new to report. The presidential canvas which closed yesterday was closely contested, and at this writing it is uncertain which candidate has been elected, both parties claiming victory.

In the manufactured iron trade, business has been quiet and depressed, with values nominally unchanged and favoring buyers, We quote:



THE GARDNER SPRING GOVERNOR.

nected with the valve stem, correspondingly moves the valve.

The springs, being tapered from their lower or fixed ends to their upper or free ends, will yield accordingly, so that the radius of the curves in which the balls move will be a variable one, being shortened in proportion as the balls assume positions more remote from a vertical neutral axis.—

By this means a graduated governing action is secured.

It will be noticed that the valve is closed by an upward movement. In this way the pressure of steam is utilized to assist in regulation. Thus, if the boiler pressure is reduced, the total pressure on the valve stem, which is in a direction to open the valve, is proportionally reduced, permitting easier opening of the valve to correspond with the reduced pressue.

A variation of 40 per cent. in the speed of engine can be made instantly, at any time, by the operation of the speeder attachment. The increase or decrease in speed is obtained by means of a spiral spring, the tension of which can be varied by a thumb screw.—

This spring operates at all times, through

Pet. Dat from, 1 to 0278 to 1	4 - 909	36 /
" " 1 to 41/2x11/2 to 1 "	1.00	
" ' 16 to 2, round and		
square	1.9@	
Hoop Iron, 13/2 wide and upward "	2.80	3 0
Band Iron, from 11/2 to 6 in wide "	25660	2.60
Horseshoe Iron	3.96	3.30
Norway Nail Rods "	5 69	534
Black Diamond Cast Steel "	10 6	11 0
Machinery Steel "	41400	4360
Spring Steel	356	4 5
Common Horse Nails "		11 0
Railroad Spikes, 51/2x9-16 "	2.5@	
The pig iron market remains	unchar	nged.
with prices as last quoted viz:		

HARDWARE.

Trade continues only moderately good, the political canvass having so engrossed public attention as to largely restrict all business transactions. Prices are about as Jast quoted.

Nails are inactive at \$2 to \$2.10, according to quantity and quality, with market dull, though there is some talk of improvement in the near future.

North Carolina's Exhibition.

A Marvellous Showing of a State's Resources.

[Special correspondence Baltimore Manufacturents Record.]

RALEIGH, N. C., Nov. 1, 1884.

The North Carolina State Exposition is a more accurate index to North Carolina than any preceeding large exposition in this intry was to the territory, or the special industry it represented. It was made so by an original method. Instead of depending on private persons or firms to make the ex position by displaying their wares, (which method, however interesting the result may be if not checked, makes a vast bazaar a not an exposition), the management of this enterprise canvassed the State, and secured the appropriation of sums of money from the public treasuries of more than forty counties to defray the expense of collecting and exhibiting specimen products of these counties. Then the county commissioners, or a massmeeting of citizens in each of these counties appointed exposition committees to collect specimens of the natural products, to gather information about the opportunities offered for immigrants and investors, and to make such an exhibit as they could at Raleigh. So far as these county exhibits are concerned, therefore, the people have made them themselves. A plain, practical man from everyone of these counties is here, whose duty and whose pleasure it is to give information about his county. The exposition is, therefore, an aggregation of county expositions, and it has been made by the people of more than 40 counties and not merely by the central managers of the exposition. This is the unique, and especially attractive feature of this great State index. Added to this is the vast collection of North Carolina products made by the State Board of Agriculture from every portion of the State, which in itse f is such a museum of the natural resources of the State as no other in the Union ever had. It was a part of this that was carried to Boston last year, and attracted so much attention there, and, after the exposition here closes, it will be sent to New Orleans. Besides all this, of course there are numbers of manufacturing establishments of this State, and the Northern States which make the great fair complete.

In this building, which is 336 by 336, with six long aisles and four court yards, are specimens of everything that man in his highest state of civilization needs to eat, to wear, or to decorate himself with. Indeed such is the unrivalled versatility of the soil in many of these counties that its citizens might build a wall about them, and live in luxury, cut off from the rest of the world, uffer the lack of nothing else, which would cause so serious a deprivation as the lack of coffee, and this hints of the actual condition of North Carolina up to a period not long past. The people have been so easily self sustaining that they have lacked incentives to a full developement of their lands, and have themselves in consequence had a tendency to become provincial.

This in turn, now leads to the uncommon significance and value of this exposition. It is a revelation of their own country to the people of this State, and much more, of course, a revelation of it to the people of other States. Of the 100,000 visitors that have been here, not one has been heard to express any emotion but surprise. The first and most significant effect is on the people Every of North Carolina themselves. county has shown to every other county, every section to every other section, that it not only has almost inestimable natural wealth, but also that its development has been begun and has been carried to an extent that even the best informed men were not aware of. In every department of industry (and in agriculture not less than in manufactures,) the progress made by the people of this State since the census of 1880 was taken, is greater than that made in all the preceding years since the civil war.

At one view along any one of the six long corridors of the main building, you can see specimens of a greater variety of woods, minerals, and agricultural products than any other State produces, and a variety of manufactured products that far outstrips any other Southern State.

The especial opportunities (or groups of opportunities) that are offered to immigrants and capitalists, after a careful study of this confusing mass of wealth, I am sure are these three:

I .- Manufactures of wood. The cutting of pine lumber has always been one of the most important industries of the State, but that is now giving way to the more advanced manufacture of products from wood. All the valuable hard woods of the Union thrive here-hickory, oak, ash, walnut, and all the rest; and lands covered with them can be bought, accessible to railroads, for \$10 to \$15 per acre, which can be sold after the wood cut for as much as they cost in forest. The success of the manufacture of such products as handles, spokes, shuttles, and the like, is rapidly stimulating all kinds of such manufacture; and the next step to be taken is the erection, somewhere in central North Carolina, of a factory of plain furni-

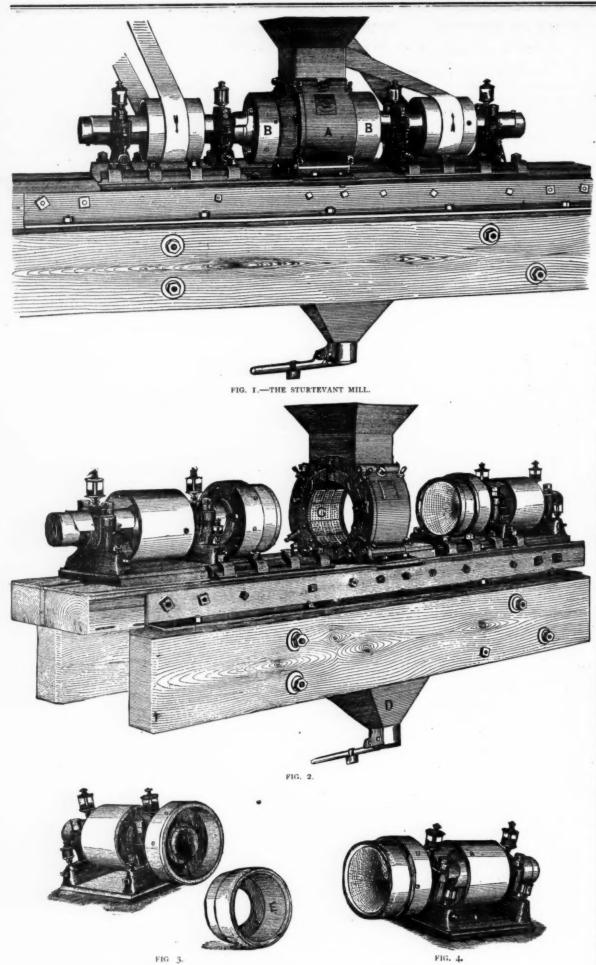
Along with the manufacture of wooden products, the preparation of building stones will naturally come. Here are vast quantities of sandstone, granite, and marble, recently made accessible by rail, but few quarries; and the people are just beginning to see the folly of importing slabs for tombstones from Vermont to mark the resting place of their dead, where graves are dug in hillsides that are themselves of marble. curious illustration of the virgin opportunities here is this; the old Capitol of the State, which was burned more than 50 years ago, had mantel-pieces of serpentine; and an old text-book on North Carolina geology stated the fact that a fine quality of this stone was found twelve miles from this city. Yet for half a century the serpentine was lost, and last year it was accidentally discovered-whole hills of it, precisely twelve miles from this city.

2. The cultivation and manufacture of tobacco is at once the most profitable agriculture and manufacture in the Union of any staple product. There is no parallel in Southern development to the advance made in riches and comfort by the tobacco farmers in Greenville; Person, Durham, Rockingham, Forsyth and Vance Counties (the centre of the bright-tobacco belt), nor to the progress of the tobacco manufacturing towns -Durham, Winston, Reidsville, Henderson, and Oxford. This has brought of necessity a change from the extensive to the intensive system of farming. Simply as an investnent, few opportunites are as tempting as the purchase of tobacco lands, the price of many acres of which these five years by the increase of the industry has been doubled and even quadrupled.

3. The fisheries on the sounds of North Carolina can be made of greater aggregate value than the fisheries of Cape Cod or Chesapeake bay; and now, for the first time, this is attracting the attention of capitalists. The density of the black population, and the consequent industrial stagnation, and the terrors of Hatteras, have kept these opportunities unknown until now. The exhibit of fishes at the exposition, prepared by the new Davidson process of ichthy-taxidermy, is a revelation.

The number of visitors from the North to the exposition, in consequence of the presidential election, has not been large, but interested prospectors have gone from Raleigh this month to every portion of the State, and the exposition has aroused the people here to make such a manufacturing effort as has never before been dreamed of. The exposition is a surprise and a revelation to them.

THE New Orleans Exposition managers find it necessary to erect still another building, so great is the demand for space.



The Sturtevant Mill.

During the past few years, the principle has been gaining ground that the most economical means of crushing and pulverizing rock, so far as large capacity and a minimum wear are concerned, is to cause the attrition of the rock by impact of the particles of rock themselves. Ingenious contrivances, from a mechanical point of view, have been brought forward, but from inherent defects they have failed to gain a foothold. The disadvantages of other crushing and pulverizing mills, it is believed, have been entirely overcome by the Sturtevant Mill, made by the Sturtevant Mill Company, No. 43 Chatham street, Boston, which we illus-

As a glance at our illustatrion trate to-day. will show, the mill is composed of two cylinders or heads B B, Fig. 1, arranged on opposite sides of a case in which they are made to revolve in opposite directions. The rock to revolve in opposite directions. being conveyed to the case through the hopper, is retained by a screen, and, entering the heads in revolution, is immediately thrown out in opposite directions with such force that the impact of the pieces of rock crushes them. The revolving head is shown, taken apart, in Fig. 3, being composed only of two pieces, one of which E is a simple metal cylinder or bushing, which when worn out can be easily replaced. When running, this head is filled with a lining of rock held

exception of the edges of the bushing, this lining protects the metal from wear. In fact, we understand that in the first little machine put together by the inventor to test the correctness of his idea, these heads were made simply of tin cans, and yet the little experimental apparatus, rough as it was, did its work. Fig. 2, which shows the interior of the mill, illustrates the position of the screen C through which the ground material passes and through which it drops from the hopper D. When uniformity of size is required, the coarse part is screened out and returned to the mill. The screen is made in small sections which are easily transported and replaced. The wear of it is claimed to in place by the centrifugal force. With the be slight, as it is protected from the action

of the rock thrown against it by a cushion of interposing material formed by a portion of the rock that always rests againts the screen. The Sturtevant Mill Company makes three sizes of portable mills-a four inch, crushing from 100 to 400 pounds an hour, weighing 500 pounds, and requiring five horse-power; a six-inch, having a capacity of from 400 to 1,000 pounds, weighing 800 pounds, and requiring seven horse-power; and an eightinch, crushing from 600 to 1,200 pounds an hour, weighing about 1,300 pounds. It also makes three sizes of stationary mills-an 8inch, 12-inch, and 20-inch-which are rated at from 1,000 to 2,000 pounds, one to four tons, and two to ten tons respectively, and require, in the order named, 13, 30, and 60 horse-power, and weigh about 1,600, 4,000, and 6,000 pounds respectively. The 12-inch is claimed to be equal in capacity to a twenty-stamp mill, and the 20-inch equal to a thirty-stamp mill. The space occupied by the mill, in its different sizes, is very small, indeed, as compared with the rated capacity. The advantages of the mill, its simplicity. its low rate of wear, its lightness and compactness, will be evident at once from its design. It has, we understand, done excellent work on that bete noire of all pulverizers, phosphate rock, and is in operation on a large scale on other classes of work.

The Clem & Morse Elevator.

Messrs. Morton, Reed & Co. have recently put a Clem & Morse elevator in the new 6 story building of Messrs. Francis Summer & Co., Cor. German and Paca streets, and a few days ago gave an exhibition to test the working of the new improved pneumatic safety catch. The exhibition, under the direction of Mr. Macclary, a representative of Clem & Morse, Philadelphia, was an interesting one, and demonstrated the safety of the elevator under almost any circumstances. Under the elevator is placed a half-inch board attached to springs. Should any accident occur, such as the breaking of the cable, or of a belt, or any part of machinery, that would increase the speed of the elevator in descent, the pressure of the air forces up the half-inch board, thus causing the revolution of the steel shafts, running across the bottom of the elevator underneath, and provided at each end with sharp cog-teeth, which clutch the guide strips of the elevator, and it is stopped almost in-stantly. The experiment was tried repeatedly of cutting the rope while the elevator was ascending or descending loaded with men. The fall was from one to two inches only, and the heavier the weight, the shorter the distance of the fall.

A man caught at the bottom of the well while the elevator was descending could save himself from being crushed by simply pressing the board under the elevator as soom as it came within reach. The elevator

would stop immediately.

Another feature of importance in the Clem & Morse elevator is what is known as the Albro Hindly worm, to which they have the exclusive right. It is a worm curved to the arc of the worm wheel, by which means there are at all times ten cogs interlocked, instead of only one, as is the c se with the straight worm in general use, thus distributing the strain, and reducing the wear, as well as removing all possibility of jarring or iolting.

PERSONS going to Cincinnati, either on business or pleasure, are advised to stop at the Palace Hotel. It is convenient to the business section of the city, as well as to all points of interest and places of amusement. The cars of nearly every prominent street car line pass its doors, or within a short distance of it. It is a new hotel, splendidly furnished, and provided with every convenience for the comfort of its guests. Its rates are as low as those of any other first-class hotel. Location, cor. Sixth and Vine streets.

Section Endless Trough Conveyor.

The Endless Trough Conveyor shown below is one of the many uses to which roller chain is applied with great success. Antifriction roller chain is so constructed that the chain is carried upon its rollers, which serve as trucks, instead of dragging, thus requiring but little power to drive it. Endless trough conveyor chains consist wholly of flat or "D" attachments, (as shown in the cut). which forms a solid floor for the trough to rest upon, and to which they are bolted, each trough having but one fastening, to allow them to pass over the sprocket wheels. The troughs are so arranged on the chain that they overlap, and in passing over the sprocket wheels, at the point of discharge, do not separate, but are always connected, so that there is no possibility of their becoming entangled, or allowing the contents to fall upon This forms an endless open the wheels. trough, which runs upon a plain provided for the purpose, and may be run at an incline. The conveyor on its return, is carried back by means of iron or wooden pulleys, used as idler wheels, upon which the inside or bottom of the trough rests. Conveyors of this class can be made of either single or double links of chain, according to the size of trough and capacity required, which

Philadelphia Iron Market.

PHILADELPHIA, Nov. 3, 1884. Steel rails have again recovered strength, and are selling well in small lots at \$28 to \$28.50; there is a good deal of inquiry for large lots, and negotiations for spring deliveries are said to be under way, but since the Lehigh Valley order for 10,000 tons last week, nothing in a large way has been done. Rail makers in this State are in very good spirits, as they have plenty to do, prospects of continued activity, and believe that they can hold prices where they are and possibly advance them slightly. Of this latter, there is not much probability however.

In crude iron everything is quiet, but a fair business in small lots is being done. Southern iron is not coming in here owing to the impossibility of furnishing a quality that can compete with Northern irons at a price which with freight charges will allow a profit here. Stocks of good irons are very light. and prices steady at \$19 to \$20 for No. 1, and \$16 to \$17 for Gray Forge.

Bessemer is in very little demand, and is quoted at \$19; 25 per cent. Spiegeleisen has sold at \$28, and 20 per cent. is offered freely at \$26.50. No new orders for structural iron have been announced, but a small business is being done at steady prices, with large orders to be placed at considerably less than



Specially reported by Rogers, Brown & Co., Pig

CINCINNATI, Nov. 3, 1884.

The market remains in the condition noted last week. While the trade is in the main waiting for the election results, and doing little, quite a heavy buying movement is nevertheless quietly in progress that is fast clearing out the small accumulations at the furnaces. Sales the past month are undoubtedly the heaviest of any month the present year; a large proportion of this iron will go to Eastern markets from Southern furnaces. The current has set strongly in this direction the past few months. Two furnaces in the past week have contracted nearly their entire product until after January 1st, at prices better than the Western markets afford. This is a new feature of the trade, and affords a permanent guarantee against undue depression of prices in the West. A recent visit to various Southern furnace headquarters disclosed a firmer feeling on all hands, growing out of the increased inquiry, reduced stocks and reduced out-put. Unless general business should grow worse, producers believe an improvement in prices cannot be long delayed, We quote for cash f. o. b. cars at Cincinnati.

HOT-BLAST POUNDRY.

Ohio	and	Southern	Strong	Coke	No.	1	\$17	50018	00
.00		44	48	6.6	No.		16	50@17	00
69		66	es	09	No.	3	15	00@15	50
Ohio !	Soft	Stonecoa	1,		No.	1	18	50@19	00
44	0.6	44			No.	9	17	00(0)17	50
		c	HARCO	AL IRO	ON.				
Hangi	ing	Rock,	1	No. 1.			\$az	00(1)22	00
16		46	. 7	in. 2.			10	00/8/20	oo.

	CHA	RCOAL II	RON.			
Hanging	Rock,	No. 1		\$21	00(1)22	00
16	48	No. 2		. 19	00@20	00
Tennesse	and Alaba	ma, No. 1		. 19	50@20	00
.04	66	No. a		. 18	00@18	50
		FORGE	E.			

old						00@15	
014	OHOTE:	 	 		-		

Southern Hanging							
Lake Sup	44	W. B	 	 	 30	00@23	90





-Composed of attachments, forming a solid floor. Single or double strands may be used.

is unlimited. This conveyor, being made quoted rates. In manufactured iron of all entirely of iron, is fire proof, and is well kinds, there is a steady call for small late. entirely of iron, is fire-proof, and is well adapted to carry hot ores, coal, coke, stone. etc., etc. It is manufactured by the Lechner Manufacturing Co., of Columbus, Ohio.

THE Railway Purchasing Agent Co., of Chicago, publish annually the "Official Railway List," a directory of all the railroads in North America, with a list of the officers of each road, the length of line operated, amount of rolling stock, and much other valuable information, making the book an exceedingly useful one to all who have dealings with railroads.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire outh, cannot find a better medium than the BALTIMORE MANUFACTURERS' RECORD. We are always prepared to furnish proof of our claims as to circulation,

kinds, there is a steady call for small lots for immediate requirements, and it is said that several heavy orders are only being withheld until the result of the election is known. There is a good deal of interest shown in old material, and speculative offers of \$17 for large lots of good rails are reported; \$17.50 is offered for small lots, with \$18 to \$18.50 asked. Muck bars sell slowly at \$28.50 at mill, and no large orders have been placed for some time; sheet iron is dull: pipe iron is in good request; steel nails continue to advance in popular favor, and sell freely in small lots at \$2.15 to \$2.20; iron nails are rather quiet at \$2.05 to \$2.15, according to size of orders.

Important to Southerners.

Persons arriving in New York via Cortlandt Street Ferry, by taking the 6th Avenue Elevated Train, corner Church and Cortlandt streets, can reach the Grand Union Hotel in 42d street, opposite Grand Central Depot, in twenty minutes, and save \$3 carriage hire. If en route to Saratoga or other summer resorts via Grand Central Depot, all baggage will be transferred from hotel to this depot free. 600 elegantly furnished rooms \$1 and upwards per day. Restaurant the \$1 and upwards per day. Restaurant the best and cheapest in the city. Families can live better for less money at this hotel than at any other first-class hotel in the city. ‡

St. Louis Iron Market.

Specially reported by HOFFER & Co., Pig Iron and Iron Ore, No. 318 Olive Street.

ST. Louis, Nov. 3, 1884.

The market continues in about the same condition as last week. There is a disposi tion among consumers however, in view of the early settlement of the election, to look about them, and in some cases, to place very considerable orders. We quote:

HOT-BLAST CHARCOAL.

Ohio	30	00(6)22	00
COKE AND COAL.			
Missouri		00(4)17	
Southern:			
Ohio	30	00(0)22	00
MILL IRONS.			
Red Short	15	50(a) 16	00
Neutral	15	00@16	00
CAR-WHEEL AND MALLEABLE I	ROP	N.	
Missouri	18	00(4:20	00
Southern	23	00@27	00
OhioIron, par.	23	00@30	00

If you are not already a subscriber to the BALTIMORE MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year or six months for \$1.50.

EVINGTON, VA., Oct. 30, 1884. F.ditor Baltimore Manufacturers' Record :

Messrs M. P. Davis & Co. have leased for 20 years or more the Barytes mines of Dr. R. N. Hewitt, of Evington, Va., which are situated 17 miles south of Lynchburg on the Virginia Midland Railroad. They have erected in 14 of a mile from mines a large steam mill, which has the capacity to turn out from 5 to 6 tons in every 24 hours. Tanner & Bliss, from Lynchburg, are

vorking a portion of the mines; they have a large force at work; the crude ore is shipped to their mills which are in, or near Lynchburg.

A new brick building has just been completed for the Lone Jack Cigarette Co. in Lynchburg, Va., and the cigarette machine, which has lately been patented, is turning out large quantities of cigarettes daily .-

Yours truly, I. I. HARDWICKE.

List of Patents.

The following Patents were granted to citizens of uthern States, bearing date Oct. 28, 1884. Reported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

Hamer, J. W., Wenona, Miss. Plow fender. 307,173 Hare, John R., Baltimore, Md. Refrigerator bucket

Leder, George, Demopolis, Ala. Extracting

Lee, T. L., Memphis, Tenn. Barrel former., 307,124
Lee, T. L., Memphis, Tenn. Barrel former., 307,313
McGovern, George, Richmond, Va. Key-hole
guard

Pattison, J. E., New Orleans, La. Apparatus
Pattison, J. E., New Orleans, La. Apparatus ...307.384 tison, J. E., New Orleans, La. Device for cleaning sisterns...

cleaning sisterns... 12. Device for cleaning sisterns... 307,326

Pritchett, W. H., Ferris, Tex. Car coupling. 307,136

Pugh, T. R., and A. P. LeGros, Louisville,
Ky. Car door lock... 307,139

Roberts, E. I. A-bland, Ky. Car coupling. 307,228

Schindel, S. M., Hagerstown, Md. Core husking and cleaning machine... 307,739

Smith, G. D., Glenn Springs, S. C. Vehicle wheel... 307,346

Teipel, Benj., Covington, Ky. Trap for throwing targets... 307 149

Winebrener, H. C., Baltimore, Md. Tinner's fire pot... 307,368

Woodburn, W. W., Willis, Tex. Hydraulic motor... 307,418

Cincinnati Iron Market Report.

Specially reported by E. L. HARPER & Co.

CINCINNATI, Nov. 3, 1884.

There is a general impression that "the bottom" has been reached, and furnacemen exhibit an independence and hopefulness not felt for several months; standard brands of foundry irons are in good request. general tone of the market is firm, and prospects for an improved trade are brighter. There is no appreciable change in prices. but there has been no cutting the past week on straight grades, while one large furnace company has moved its minimum price on a popular brand up fifty cents. We quote as prices current:

Hanging Rock	Charcoal,					00(0)23	
Strong Neutral	Coke,	44	E	****	17	00@18	00
American Scot	ch,	46				00(6)17	
	GREY	FOR	IGE.				
Neutral Coke.	*********				15	00@15	36
Cold Short						50@15	oc
	WHEEL A						
Hanging Rock							
11 01	at Mi	arm	**		22	00(4) 23	50
Lake Superior							
South. Car WI							
Amherst and \	Virginia W	0.000	Riage.		9.9	an(6, 61	40

≺METALS.►

TIN PLATES.

BLOCK TIN.	
"Lamb and Flag," and "Straits."	
Large Pigs	20
Small Pigs	21
Bars	25
TINNERS' SOLDER.	
No. 1 Refined	13
Market Half-and-Half	
Strictly Half-and-Half	16
ROOFING PLATS.	
IC, 14x20, Choice Charcoal TerneIX, 14x20,	5 50
IX, 14×20, " " "	7 35
IC, 20x28,	II 00
	14 50
IC. 20x28. Extra fine quality, charcoal roof-	
ing, genuine "old style" redipped.	14 00
IX, 20×38, " " "	18 00
TIN PLATES.	
IC, toxt4, Charcoal	6 00
	8 00
IC, 12X12, "	6 25 8 25
IX, 12X12, " IC, 14X20, " IX, 14X20, " IXXX, 14X20, " IXXX, 14X20, " IXXXX, 14X20, "	6 00
IX. 14X20. 41	8 00
IXX. 14X20. "	10 00
1XXX, 14×20, "	12 00
1XXXX, 14×20, "	14 00
	18 50
	6 00
DX, 100, " "	8 00
DXX, 100, " "	10 00
DX, 100, " "	12 00
COKE PLATES.	
IC, 10x14, bright, "B. V." grade	5 00
IC, 10x14, bright, "B. V." grade	5 00
	7 00
IC, 10x20, Gutters	9 00
SHEET ZINC.	
In casks of 600 fbs., \$ fb	6
In smaller quantities, & b	63/2
BABBITT METAL.	-/2
A 1	15
No. 1 Ordinary	9
No. 1 Ordinary	18
Excessor nabout Metal, No. 2	10
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9
LEAD.	
Pig	4
Bar, (15 oz. bars)	616
Sheet	736
Pipe, full coils	634
COPPER,	
Tinned Sheathing, 14x48, 14, 16, 18 oz	25
Planish'd, 14x48, 14, 16 oz Boilers 7, 8, 9	35
Boilers 7, 8, 9	37
Cooper Pit Bottoms	25
Linning Extra	15
	26
10 to 12 lb	28
6 b	30
Bolt	32
Tinning extra	40
	4.0

PAINTS, OILS, &c.

PAINTS.
Black Lamp, coach painters 1th 200
Black Lamp, ordinary 16 6c
Black Ivory Drop, fair 12@150
Black Ivory Drop, best
Black Paint, in oilkegs, 6c; assorted cans, 9c
Blue Prussian, fair to best40@55c
Blue Prussian, fair to best, in oil45@55c
Blue Chinese, dry
Blue Ultramarine
Brown, Spanishrc
Brown, Van Dycke
Green, chrome, in oil
Green, Paris
Green, Paris, in oilgood, 20c; best, 25c
Iron Paint, bright red
Iron Paint, purple
Iron Paint, purple
Iron Paint, ground in oil, red
Iron Paint, ground in oil, brown
Linseed Oil, raw
Linseed Oil, raw
Double "63c
Mineral Paints2@4c Orange Mineral
Red Lead American 61/60 ac
Red Venetian, (English) dry \$1.50 to \$1.75 Red Venetian, in oil assorted cans, 9c; kegs, 6c
Red Venetian, in oil assorted cans, 9c; kegs, 6c
Red Indian, dry
Sienna, American, raw4c
Sienna, Burnt44c
Sienna, burnt, in oil8@15c
Sienna, raw
Umber, burnt, in oil8@15c
Umber raw al/@al/c
Umber, raw, in oil8@15c
Umber, raw, in oil. 8@15c Vermilion, Chinese. 90c Vermilion, English. 50@55c
Vermilion, American, common
White Lead, American, pure dry
White Lead, American, pure in oil6@61/2c
Vellow Ochre French
Yellow Ochre, French, in oil. asst'd cns, 9c; kegs, 6c
Yellow Chrome
Zinc White, American, No. 1, dry
Zinc White, American, No 1, in oilgc
Zinc White, French (Parish) dry
Zinc white, French in oil 10@14c
OILS.
Bleached W. Sperm oil
D2(0)1 O5

B. W. Elephant oil..... Whale oil.....

Miners' oil	106	55
W. Pressed Fish cil	42(0)	33
Neatsfoot oil	650	80
Steam-refined Cylinder oil	40@	55
Best Filtered " "	65@-	33
Steam-refined Cylinder oil	600	70
Paraffine	12@	20
SUNDRIES.		
Benzine P		
Turpentine %	gal., 38	16 C
Chalk	******	¾c
Chalk, block	*******	->BC
Dryer patent Am'nasst'd cans,		
Frostings		
Glue, white		
Glue, sheet		
Glue, ordinary	90	912
Glaziers' Points, zinc	******	.00
Gum, Copal		
Gum, Damar		25C
BRASS.		
ROLL AND SHEET BRASS.		
Brown & Sharpe's Gauge the Star New List, Jan.	idard. 17, 1884	

Dis 10@20 \$

COMMON HIGH BRASS.
Wider than (2 10 12

and including.	10	12	2.4	16	18	2
To No. 20, inclusive.	.21	.22	.23	.25	.27	.20
Nos. 21, 22, 23 and 24.	.22	.23	.24	.26	.28	.3
Nos. 25 and 26	.2236	.231/2	.241/2	.27	.29	.3
Nos. 27 and 28		.24	.25	.28	.30	.3
Add o cts. 78 lb. for and lengths.						
Add % c. % fb. addit than Nos. 28 to 38 in	nclusi	ve.				anei
					55	
Printers' rules					45	cts
Printers' Sheets and sizes and lengths to	No. :	o, incl	usive.		30	
Brazing, Spinning and than common High			ass, o	ne ce	ent n	tore
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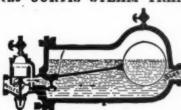
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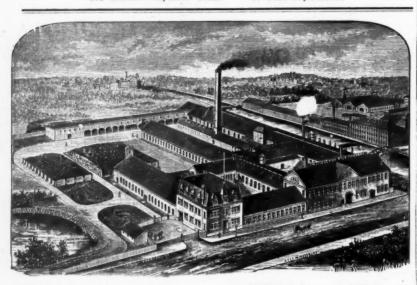
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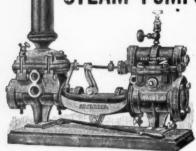
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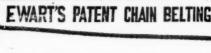
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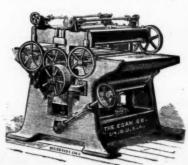
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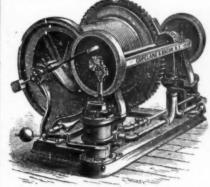
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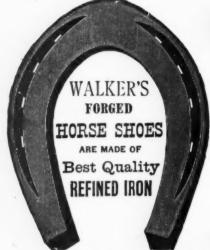
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T. V. Allis Mnfg. Co.—Buckthorn Wire.
American Screw Co.—Screws, Rivets, Bolts, etc.
Bra-ford Lock Works.
Boss Molasses Gates.
Carr & Crawley.—Shelf and Carriage Hardware.
Lancaster Holt Co.—Eagle Carriage Bolts.
Lawson & Brenizer.—Hay and Manure Forks.
Meriden Britannia Co.—Rogers Bros. An Plated Goods.
Northwestern Horse Nail Co.
Nicholson File Co.
Naucratuck Curlery Co.

Northwestern Horse N Nicholson File Co. Naugatuck Cutlery Co. Globe Horse Nail Co.

Clark Hardware Co.—Spring Butts, Screen Frames, etc.
Cowles Hardware Co.—Geers, Butts, Screw Drivers, etc.
H. Chapin's Sons.—Rules, Levels, Gauges, etc.
Clark Bros. & Co.—Bolis.
Essex Horse Nails.
A. Field & Sons.—Tacks, Finishing Nails, etc.
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Holroyd & Co.—Stocks and Dies.
Henry W. Kipp.—Hammers.
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Kimball's Patent Shovels and Spades.
Lockwood Steel Hoes.

Peck Bros. & Co.—Brass Cocks.
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Patton Mnfg. Co.—Enameled and Tin'd Hollow Ware.
Roy & Co.—Strap and T Hinges and Wrought Butts.
Saranac Horse Nail Co.
Scott Mnfg. Co.—Pesch and Apple Pearers, etc.
George M. Scott.—Blacksmith Bellows.
Wilson's Mnfg. Co.—Coffee Mills, Vises and Ship Hardware.
Walker's Horse and Mule Shoes.
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Walker Horse Shoe Co., Baltimore, Md.

OF SUPERIOR SHAPE and FINISH.

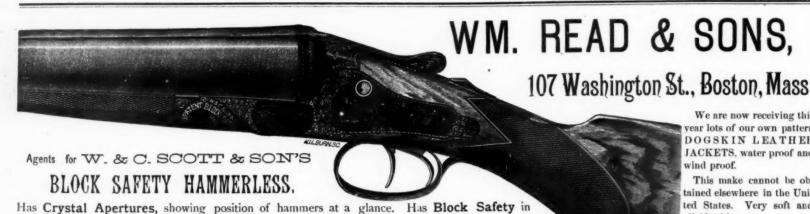
Nail Holes Punched Through at Proper Angles. Clean Crease of Proper Width and Depth.

Free from Burs. Outside Edges Smooth and Free from Bulges. Popular with all Shoers, as they are easily fitted. EVERY SHOE WARRANTED. ALSO,

MULE SHOES.

Of Superior Pattern, Quality and Shape.

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addition to Safety Slide. Has Independent Strikers, preventing fouling of locks.

Used by Bogardus. Indorsed by "Stonehenge," editor of London Field, and "Gloan." Send stamp for full

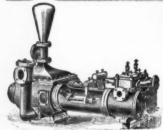
circular of this favorite Gun. Also of Scott's New Low Hammer Breech Loader.

We are now receiving this year lots of our own pattern DOGSKIN LEATHER JACKETS, water proof and wind proof.

This make cannot be obtained elsewhere in the United States. Very soft and pliable skins.

Send stamp for Circulars of Fine Guns.

Sole American Agents for the Celebrated ROYAL MAIL Light Bicycles: Weight 33 lbs.; Used by Prince, Morgan, Dolph, Brooks, Chambers, Etc. The coming Favorite Wheel! Good Agents Wanted. Send Stamp for Illustrated Circulars.



The Worthington Duplex Steam Pumps,

Independent Condensers and Pumping Machinery of all kinds.

BOILER FEED, MINING, FIRE AND BREWERY PUMPS. JACKSON & TYLER, Sole Agents, 16 and 18 S. Howard St., Baltimore, Machinery, Tools and Supplies.

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The Oldest Saw Manufactory in the

Particular attention paid to Large Circular Work. We warrant our Small Circular Saws to stand more strain, without buckling or cracking, than any other make. We make all kinds of Saws.—Ensilage, Feed, Meat Choppers, and other knives made to pattern, warranted equal to the Best Forged Hnives, and CHEAPEN.

N. B. We make no charge for hammering any Large Circular Saw that, we can't make "go."

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The "LION" and "PHŒNIX" Brands of Galvanized Sheet Iron. Corrugated Iron for Roofing or Siding, Tin Plates, Solder, Stating and Roofing Nails, Tinned Galvanized and Black. All kinds of Iron work Galvanized or Tinnel to order.



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MATTHEWS AUTOMATIC HIGH-SPEED ENGINE,+

For Electric Lights and other purposes requiring steady, reliable power. The best and cheapest in the market. 25 H. P. for \$500. SEND FOR CIRCULAR.

*	H	AR	(D	WA	ŖE	
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Baltimore WHOLESALE Prices.

Datamore Wildershill Tites.
Eagle and Vulcan
Conn. Valley Mfg. Co. dis 60%
Wilkinson's 10/2c Conn. Valley Mfg. Co
Gimlet Bits, Diamond
Patent Sewing, Short
Sewing Brass Ferrule
Collins & Co
Collins & Co
AXLES. Sheldon & Co., iron
Spring Balancesdis 25& 10 \$
Hand, Light Brass. dis 70 g Hand, White Metal dis 66 g Hand, White Metal dis 66 g Hand, Globe (Cone's Patent dis 20% to g Gong, Abbe's dis 20% to g Gong, Abbe's dis 30% to g Gong, Barton's dis 30% to g Leon Reading dis 20% to 60 g Pull, Brook's dis 50% to g Crank, Taylor's dis 20% to g Crank, Taylor's dis 25% to g Bloomfield dis 20 g Lever, R. & E. M. Co's dis 45% to g Cow, Common Wrought dis 55% to g Cow, Western, Sargent's List dis 55% to g Cow, Kentucky, Sargent's List dis 55% to g Cow, Moore's or Dodge's, Genuine Ky, new list: Nos. o 1 1½ 2 3 5 6 Hog dis 60 g Cow, Texas "Star" dis 40 g EBELLOWS. Blacksmith's Common dis 50 g Blacksmith's Common dis 50 g BELLOWS. Blacksmith's Common dis 50 g BELLOWS.
Blacksmith's Commondis 50 \$
Hand Bellowsdis 25 % BLIND FASTENERS.
Francis dis 20 5 Mackrell's do pairs \$1.00, dis 10 5 Van Sand's Screw Pattern \$9 7 gross, net Van Sand's Old Pattern. 1½, \$3; 1½, \$5.50 7 gro. net Merriman's hew list, net Zimmerman's, 10½ in 7 gross \$36.00 Zimmerman's, without screws \$5.00 less
Barbed, ¼ in. and larger
Penfield Block Co., Rope and Iron Strap'ddis 40 %
Cast Iron Barrel Shutter, &c
WRACES.
Q. S. Backus dis 50 % Barber's dis 40 % 5 % Spoffard's Patent dis 50 % 5 1 ve's Patent Braces dis 50 % Common Ball (American) dis 55 % Amidon's dis 50 % BORING MACHINES—WITHOUT AUGERS.
BORING MACHINES—WITHOUT AUGERS. Sweet & Clark upright, 3.60 angular
1 24

BALTIMORE MANU	FA
Shelf, plain	×
New list	
Union Nut Co	X
## Wrought Brass	* * * * * * *
Loose Joint. dis 60&10&10 Loose Joint, Japanned dis 60&10&10 Loose Joint, Jap, with Acorns dis 60&10&10 Parliament Buts dis 60&10&10 Mayer's Hinges dis 60&10&10 Loose Pin no Acorn dis 60&10&10	****
Harriament butts dis 50&10&10 Mayer's Hinges dis 60&10&10 Loose Pin, no Acorn dis 60&10&10 Loose Pin, Acorns dis 60&10&10 Loose Pin, Acorns dis 60&10&10 Loose Pin, Acorns, Japanned dis 60&10&10 Loose Pin, Acorns, Japanned dis 60&10&10 Tips dis 60&10&10 Wrought Iron, dis 60&10	M M M
Fast Joint, Narrow dis 60&10 Fast Joint, Lt. Narrow dis 60&10 Fast Joint, Broad dis 60&10 Fast Joint, Broad dis 60&10 Loose Joint, Broad dis 60&10 Table Burts, Back Flaps, &c. dis 60&10 Inside Blind, Regular dis 60&10 Inside Blind, Regular dis 60&10 Loose Pin, Wrt dis 60&10 Loose Pin, Light dis 60&10 Spring Hinges— dis 60&10 Spring Hinges— dis 60&10	****
Inside Billind, Light	
American Spring Hinge Co's	
American Sprit, g Hinge Co's dis 25: Gem Spring Hinges dis 26: Blind Butts, Shepard's , Nos. 50 and 60 dis 70: Blind Butts, Shepard's , No. 950 dis 70%5: Blind Butts, Shepard's No. 75 dis 70%5: Blind Butts, Lull & Porter dis 50: Blind Butts, Huffer dis 50: Blind Butts, Huffer dis 50: Blind Butts, Huffer dis 70%10 Standard Lull & Porter dis 70%10 Standard Lull & Porter dis 75: BOW FINS. Humason, Becklev & Co's dis 50%5.	1 1 1 1
BOW FINS. dis 55&5	
Beatty's	
New Idea \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
CAPS, FERCUSSION, \$1,000. U. M. C., F. C. trimmed	6 7
\$16.50 19.00 21.50 24.00 27.00 30.00 33.50 36.50 CAN OPENERS. American	1
CARTRIDGES. dis 50@10 Central Fire, pistol size dis 33 5 Central Fire, pistol size dis 33 5 Central Fire, pistol size dis 33 5 Central Fire, pistol size dis 32 5 Central Fire, pistol size dis 32 Central Fire, pistol size dis 32 Central Fire, pistol size dis 32 Central Fire, pistol size displayed displayed	
" 32 " 10 " 15,50 " 38 " 18 " 18.00 " 41 " 15 " 17,50 Central Fire—32, \$11.00; 38, \$13.50; 41, 15.00; 44, \$10.	I
Horse and Curry, new list, July, 1881	1
Cast Iron, Steel Points A doz \$2.00, dis 50 \$	1
CASTERS.	2
P. S. & W	97
Trace, Breast and Fancy	ECCA
COTTON LINES.	Č
Cotton Fish Lines	LES
Socket Framing, Crossman. dis 65&5 \$ Socket Framing, P. S. & W. dis 70&10 \$ Socket Framing, Douglass' dis 70&10 \$ Socket Firmers, Crossman. dis 65&5 \$ Socket Firmers, Ohio Tool Co. dis 60&10 \$ Socket Firmers, Ohio Tool Co. dis 60&10 \$ Socket Formers, Douglass' dis 70&10 \$ Socket Corner. dis 70&10 \$ Tanged Firmers, Butcher's dis 40&45 \$ Tanged Firmers, Butcher's \$ Li Merrill's Socket and Framing Chisel. dis 65&10 \$ CLAMPS.	N N N N N N N N N N N N N N N N N N N
Iron, Screw, Eagle	N.:
Norway or Best	D D
Coat Hods—Urithins	F
COFFEE MILLS.	E

TOTORERS RECORD.	
Dividers	May
Barton's dis no #	Mag War
Cast Steel	Kip Yerl H
Curling Tongs	Per Rog Bro
Hotchkiss, Novelty, new li-t, July, 1880. dis 25 \$\frac{1}{2}\$ Hotchkiss, Excelsior Superior Champion . dis 25 \$\frac{1}{2}\$ Hotchkiss, Excelsior Superior Champion . dis 25 \$\frac{1}{2}\$ Rubber . dis 25 \$\frac{1}{2}\$ Rubber . \$\frac{1}{2}\$ doz \$\frac{1}{2}\$ noo, dis 25 \$\frac{1}{2}\$ Sweet & Clarke . dis 50 \$\frac{1}{2}\$ Lusters . dis 25 \$\frac{1}{2}\$ Silvered Glass . net	Barr Wro Surf Flus Lifti Saw Lipp Han
White Enamel	Chis Aug Aug Pate
Association (Table)	Pate Pate Whi
Embossed Gilt	Barr
Torrey's Rod, regular size, ₩ doz, \$3dis 40&10 ≸ Gem (Coil): No. 1, Large Japanned ₩ doz \$4.00 No. 2, Medium Japanned ₩ doz 2.75 No. 3, Small Japanned ₩ doz 2.00 No. 4, "Shoo Fly") Screen door size, 1.50 No. 5, Screen door size	Clim War Rich Shim Clav Lath Han Bloo Hun Russ Coh
Ohio Tool Co. dis 6o&10 § Crossman's No. 1. dis 65&5 § Nobles Mfg. Co. dis 15 § Bradley's dis 35 § Adjustable Handle dis 20 § P. S. & W. dis 70&10 § Douglass dis 70&10 §	"Lig Wad Plate "Pro Scree and Crow
Ohio Tool Co	Grove Crove Grove Bick Ame
Dover	Hea
Regular numbers	Scre
Kettles	Wro Plan Rive Sock Gruh
Brass Thread	Hick Hick Hub
Color Colo	Ausa Pla Fin Clint Clint Esse Putn Sara Glob N'th
E. M. POVILORS	Char Fo A. C C. B K. Brid New Cape Burd R. I.
Stubs, new list	Mule Walk Ho Mu Keys Exce Akro Ox S
3, \$10,50; 4, \$8.25 \$\times doz, \$15.00, dis 35 \$\times combined Fluter and Sad Iron, \$\times doz \$15.00, dis 30 \$\times porks.	Peerl B c
Auton & Brenizer	Amer
\$00 I 2 3 4 5 6 7 8 \$\dot{4} 0\$3.00 3.75 4.25 4.70 5.25 6.00 7.00 8.00 9.00 GAUGES.	Crow \$4. Crow
Namished list as follows dis co&10810 % dis co&10 % dis co	\$10 qua 8 q 18 \$37 Star,
fail and Spike. dis 40 % Eureka" Gimlets. dis 50 % Diamond" Gimlets. dis 50 % bouble Cut, Shepardson's dis 50 % bouble Cut, Hartwell's. dis 50 % bouble Cut, Uses' dis 50 % bouble Cut, Douglass dis 33 % Reel" Fgro. \$12.00, dis 25 %	\$4.59; Gem, \$4.59; Crow Carri Base-
'inned and Enameled	Door Door Door
argent's Patent	Door Furni Furni Pictu

	Shelf, plaindis 50% 20 %	Dividersdis 55 \$ Cook's Pencildis 10 \$	Maydole'sdis 15 \$
	Shelf, fancy	COOPERS TOOLS. Bradley's	Magn'c Tack, Nos. 1.2.3, 1.26,1.50 and 1.75 disasters
	New list	Barton's	Warner & Noble's
	Union Nut Co	Iron, Steel Points B b 4c	HANDLES.—Door or Thumb Latches.
6	Wrought Brass	CURLING IRONS, &c	Nos o 1 2 3 4 Per dox. \$0.80 1.00 1.18 1.35 1.50dis 55&10 2
22.23	Cast Brass, Fast Joint	Pinching Irons	Roggin's Latches
	Fast Joint, Narrow	Fitch's new list	Barn Door
f	Loose Joint, Japanned dis 60&10&10 \$ Loose Joint, Japanned dis 60&10&10 \$ Loose Joint, Jap, with Acorns dis 60&10&10 \$		Wrought Chest
	Parliament Buttsdis 60% 10% 10 %	Lawrence, "Perfect" dis 25 kto.	Flush Chestdis 55&10 %
	Mayer's Hingesdis 60&10&10 \$ Loose Pin, no Acorn	CURTAIN PINS.	Saw and Planedis 40&10 % Lippincott Cross-Cut Saw
1	Loose Pin, Acornsdis 60&10&10 % Loose Pin, Acorns, Japanneddis 60&10&10 %	Silvered Glassnet White Enamelnet	Brad Awl R gross, \$2.00, dis 20 %
	Loose Pin, Acorns, Jap'd, Plated Tips	Association (Table)net	Chisel, all kindsdis 50&10 \$ Auger, assorted, \$\mathbb{R}\$ gross
	# rought from. dis 60&10 % Fast Joint, Narrow	Naugatuck Cutlery Colist net Excelsior Knife Conet Wilson's Butcher and Shoe Knivesdis 30 %	Patent Auger, Ives'dis 25 %
	Fast Joint, Broaddis 60% to \$	Wilson's nutcher and Shoe Knives	Auger, large, p gross 5.0c Patent Auger, lves' dis 25 % Patent Auger, Douglass p set \$1.35 net Patent Auger, Swan 5 set 1.00 net HAMMOCK CHAIRS.
	Loose Joint, Broad	Embossed Gilt	White Mountain, per doz
	Inside Blind, Lightdis 60&10 % Loose Pin, Wrtdis 60&10 %	Brass dis 25 %	HANGERS. Barn Door, old patterns
	Loose Pin, Light dis 60&10 % Spring Hinges—	DOOR SPRINGS. Torrey's Rod, regular size, \$\mathbb{H}\$ doz., \$3\dis 40\&10 \$\mathbb{H}\$	Barn Door, New Englanddis 60&10 % Climax (Anti-Friction)
	Geer's Spring and Blank Buttsdis 25 % Clarke Hardware Co'sdis 50&10 %	Gem (Coil): No. 1, Large Japanned A doz \$4.00 No. 2, Medium Japanned doz 2.75 dis 40 %	
	American Spring Hinge Co'sdis 25 % Gem Spring Hingesdis 25 %	No. 2, Medium Japanned 1 doz 2.75 dis 40 %	Shingling, Nos. 1 s 3
	Gem Spring Hinges	No. 3, Small Japanned	Lathing, Nos. 1 2 3
	Blind Butts, Lull & Porterdis 75 %		Blood's
	Blind Butts, Lull & Porter dis 75 & Blind Butts, Huffer dis 50 % Blind Butts, Huffer dis 50 % Blind Butts, Clark's, Nos. 1, 3, 5 dis 70&10 % Standard Lull & Porter dis 75 %	Standard—10 doz \$1.25; 9 doz \$1.75dis 50&10 \$ 8 doz 2.50; 6 doz \$3.50dis 50&10 \$ Herculesdis 50&10 \$	Blood's dis 35 Hunt's dis 30 Russel's, low list dis 40 S Cohees Bench Broad Adzes 40 S
1	Humason, Beckley & Co'sdis 55&5 \$	Ohio Tool Codis 60&10 \$	"Lightning"
1	Sargent & Co's\$19.70 and 21.40; dis 66&10 \$ Hotchkiss	Crossman's No. 1	
	Humason & Beckley Mfg. Codis 25 \$	Bradley's	Plate Hinges \$8,108.12 in
1	Bradley's	P. S. & W	Screw Hook 8, 10, 12 in
1	Beatty's	Blacksmiths'each, \$2.50, dis 10 % Blacksmiths' Self-Feedingeach, 7.50, dis 20 %	for solid doors, single action, dis 45 %; for solid
	CAN OPENERS. American	Breast, P. S. & W	Crown Screen Door Latch M gross \$12, dis 55 \$
	New Idea	Breast, Millers Fallseach, \$3.00, dis 25 % Breast, Bartholomew'seach, \$2.50, dis 25%10 %	doz \$9; 3-inch, \$12
	Sardine Scissors	Wilson's Drill Stocksdis 10 % Automatic Boring Toolseach, \$2.25, dis 20 %	American Cake Mixer, No. 6each \$3.50, dis so \$ American Tobacco Cutter
	CAPS, PERCUSSION, \$\text{21,000}, \dis 33\frac{1}{3} \frac{1}{3}	Dover	A. M. Co. Clothes Wringer, No. 2 rolls, tox134, & doz \$37.50; No. 2½ rolls,
	U. M. C., F. C. trimmed	Medalliongross, \$10.00 Victoriagross, \$10.00	Grown Christmas-Tree Holders, a-inch, 34 doz \$9; 3-inch, \$12
	U. M. C., Double W. Proof\$1.40	Regular numbers	14 in. & up, 10 in 100 in. 1 20 % 1/6 & 1 in 1/6 & 1 in 1/6
	E. B. 1-10, Eley's	Flour and F. F	Screw Hook and Eye 23 in
1	Musket, in 1-10 ⁷ s	Kettles	Wrought Strap & T list, Dec. so, '77, dis 60&10&10 % HORS.
1	Rimdiś 50@10 \$ Central Fire, pistol sizedis 33½ \$	Tinned Sauce Pansdis 40 % Eacutcheon Pins-Brassdis 50 %	
	Central Fire, pistol size	Door Lock	Riveted Shank Pi doz \$5.00, dis 908.10 Socket Pi doz \$5.20, dis 908.10 Socket Pi doz \$5.20, dis 908.10 Socket Pi doz \$5.20, dis 908.10 Socket Pi doz \$6.20, dis 908.10 Socket Pi doz \$6.20, dis 908.10 Socket Pick's Pat. Solid C. S. Planters dis 608.0 Socket Pick's Pat. Solid C. S. Scovill Pattern dis 608.0 Socket Pick's Pat. Solid C. S. Scovill Pattern dis 908.10 Socket Pick Pick Pick Pick Pick Pick Pick Pick
ı	" Swaged Conical	Brass Threaddis 25 % Wooddis 25 %	Hick's Pat. Solid C. S. Scovill Patterndis 608 5 8 Hubbard Bakewell & Co.
	Rim-fire, 22 short\$ 5 long\$ 6.00 " 32 " 10 " 15.50 " 38 " 18 " 18.00 " 41 " 15 " 17.50 Central Fire—32, \$11.00; 38, \$13.50; 41, 15.00; 44, \$19.	Fenn's	Ausable: Nos. s 6 7 8 0 10
	" 41 " 17.50 Central Fire -32, \$11.00; 38, \$13.50; 41, 15.00; 44, \$10.	Stardis 55%10 %	Finish'd % D. 210 280 200 250 240 230 230. dis 208210 \$
1	Horse and Curry, new list, July, 1881dis 10 \$	West's Patent Kev	Clint'n, Fin'd " 240 230 210 200 190 180 dis 20% 10 %
	Horse and Curry, new list, July, 1881dis 10 \$ Cotton, new list, July, 1881dis 10 \$ Wool, new list, July, 1881dis 10 \$	Anchor Lock dis 45 % Metallic Key, Leather Lined dis 60 % Cork Lined dis 70 % J. Sommer's Best Metallic Key dis 40 %	Essex, & B31c 28c 26c 25c 24c 23c.dis30 \$ Putnam "27c 24c 22c 21c 20c 1gcdis 5&10 \$
	CARPET STRETCHERS. Cast Steel, Polished	J. Sommer's Cork Lined, 1st qualitydts 50 %	Saranac "
	Bullard'sdis 25 \$	E. M. Boynton'snew list, dis 25 %	Champlain Forged & M30c 27c 23c 24c 23c 22c.dis 25&20 %
	CASTERS. Bed	Western File Co	
	Deep Socket	H. Disston & Sons (new list)	C. B26c 23c 23c 22c 21c 21cdis 10R5 % Bridgewater24c 21c 19c 18c 17c 16cdis 23R5 #
	CATTLE LEADERS, Humason, Beckley & Co's	Nicholsondis 50&10 g New Americandis 40 g	New Haven33c 30c a8c 27c 26c 25c.dis 30&10 % Capewell31c 26c 26c 25c 24c 23c.dis 20&10 %
	Sargent'sdis 60&10 \$ P. S. & Wdis 25&10 \$	Union File Co	Burden
-	German Halter and coil Chaindis 50&10 \$	PLUTING MACHINES.	Burden
1	Trace, Breast and Fancydis 45&5 % Oneida Halter Chain (old list)dis 45&5 % Galvanized Pump Chain	Knox, 4½-inch Rolls\$3.50 each \ Knox, 6-inch Rolls\$4.00 each \ Knox, 8-inch\$6.50	Walker's-Forged: (Light, Medium and Heavy.)
	Galvanized Pump Chain	Eagle, 3½-inch Roll	Mule keg \$4.87% Keystone Solid Calk Steel Horse \$2.85%
Ł	CHALK.		Mule. \$4.87% Keg \$4.87% Keystone Solid Calk Steel Horse \$9.87% 5 \$4.87\% 5 \$4.87% 5 \$4.87\% 5 \$
1	White	American, 5-in., \$3; 6-in., \$3.40; 7-in., \$4.50 each dis 35 % Domestic Fluter. \$1.50 each, net Geneva Hand Fluter, White Metal, \$2.50 each, net Geneva Hand Fluter, White Metal, \$2.50 dis 5.7 Crown Hand Fluter, Nos. 1, \$15; 2, \$12.50;	Excelsior
	White Crayons	Crown Hand Fluter, Nos. 1, \$15; 2, \$12.50;	ICE CREAM PREEZERS.
1	Cotton Fish Linesdis 33% # Cotton Chalk Lines, 20 feet:	Combined Fluter and Sad Iron, & doz \$15.00, dis 30 \$	Peerless—3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; B quart, \$9; 10 quart, \$12. The Grooch Patent "Giant"—14 quart, \$20; 18 quart, \$25; 21 quart,
	Nos. 17, 13, 15, 17, 20, dis 33\/3 \\ 3.20. 3.60. 4.00. 4.50. 5.25. dis 33\/3 \%	Lawson & Brenizer	\$30; 25 quart, \$35; 32 quart, \$40; 42 quart, \$45. Discount 50 %.
1	Socket Framing, Crossman	Sheble & Fisherdis 30&10 \$	American-2 quart, \$2.75; 3 quart, \$3.25; 4 quart, \$3.75; 6 quart, \$5 eachdis 45 \$
	Socket Framing, P. S. & W	Burnished list as follows	Crown, single action, 2 quart, \$3.75; 3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart.
	Socket Firmers, Ohio Tool Codis 60&10 \$ Socket Firmers, Douglass'dis 70&10 \$ Socket Cornerdis 70&10 \$	# dor\$3.00 3.75 4.25 4.70 5.25 0.00 7.00 0.00 9.00 GAUGES. Marking, Stanley's	\$9; 10 quart, \$11; 14 quart, \$14dis 43 \$ Crown, double action, with crank, 8 quart,
1	Socket Corner	Marking, Chapin'sdis 55&10 \$	\$10.50; 10 quart, \$13; 14 quart, \$16.50; 18 quart, \$21; 24 quart, \$25. With fly wheel,
1	Tanged Firmers	Wire, Wheeler, Madden & Codis 20 %	8 quart, \$13; 10 quart, \$16; 14 quart, \$20; 18 quart, \$25; 24 quart, \$30; 32 quart, \$37.50
1	Iron, Screw, Eagledis 50 %	Nail and Spike dis 40 %	Star, double action, 2 quart, \$3.75; 3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7; 8 quart,
	Iron, Adjustable, Stearns'dis 20&10 \$\frac{1}{2}\$ Iron, Cabinet, Sargent's dis 65&10 \$\frac{1}{2}\$ Iron, Carriage maker's, Carr & Crawleydis 25 \$\frac{1}{2}\$	"Eureka" Gimlets	Co. to ought Cit. ta ought Cia. die as W
1	Norway or Best	Double Cut. Hartwell's dis 50 % I	Gem, double action, 2 quart, \$3,75; 3 quart, \$4,50; 4 quart, \$5,50; 6 quart, \$7,8 quart, \$9; 8 quart, \$11; 14 quart, \$14 \tau \tau \tau \tau \tau \tau \tau \tau
1	Concestogo	Double Cut, Ives' dis 50 % Double Cut, Douglass' dis 33½ % "Reel" \$12.00, dis 25 %	KNOBS.
1	Loal Hogs-Urithinsdis 40 %		Carriage, (Jap'd 80 c @ gross)dis 60& 10 % Base—Commondis 30& 10 % Hemacite Door Knobsnew list, dis 35% 5 %
1	Racking, new list, July 10, 1880dis 50&10 \$ Globe, new list, July 10, 1880dis 50&10 \$	Tinned and Enameled	
1	Ale and Beer, new list, July 10, 1880 dis 50&10 \$	GRINDSTONE PIXTURES. Sargent's Patent	Door Por. Jap'd Door Por. Plated. Door Por Same discounts as Door Locks.
1	COFFEE MILLS. dis 45 %	Reading Hardware Codis 25&10 %	Furniture Plain 75c gross inch, dis 10 % Furniture, Wood Screws
1	Wilson's	Eley's B. E. wads, 11 upwards	Hemacite, Picturedis 35 \$
	COMPASSES, DIVIDERS, AC.	# D F : # ** unwards 2.00	Shutter, Porcelain
-	Compassesdis 55 \$ Calipersdis 55 \$	" " " 0 and 10	Melting, C & Cdis 308.10 \$

404	
LAWN MOWERS.	
Buckeye, Easy and Excelsior, new list, dia 3 Lines Fish	0 %
Cabinet, Eagle Changes made in list processing the Cabinet Registration of some numbers Jan.	1,
Cabinet, P. & F. Corbin	2 %
Cabinet, Eagle	1 %
Norwich P. & F. Corbin Dec. 6th, 60&2% for cash.	-
Mallory, Wheeler & Co Padlocks—Russell & Erwin	
Bradford Norwich. Norwich. P. & F. Corbin. Mallory, Wheeler & Co Padlocks—Russell & Erwin. Mallory, Wheeler & Co I dis 45 % and 2% for cas Wm. Wilcox & Co's Plate Locks Wm. Wilcox & Co's Plate Locks Mallory, Wheeler & Co Mallory, Whe	h.
Wm. Wilcox & Co's Plate Locksdis 33½ Vale Lock Manf. Co's "Standard" dis 40	X
Romer's	XX
Penneld Block Co., Apple, Hickory and	1
Lignumvitædis 30	×
Dixon's (P. S. & W.) Nos. 1 2 3 4. Proposition of the state of the st	
Each	
MEAT CUTTERS.	× ·
Kieser's No. 55	XXX
Kieser's Monarch	X I
MOLASSES GATES. Stebbins Patterns	K S
Stebbins Patterns dis 70%10 Stebbins Genuine dis 67½%20 Stebbins Tinned Ends dis 40%10 Chase's Hard Metal dis 50%10 Self-Measuring, (Enterprise) dis 20 Lincoln's Pattern dis 60%10 Weed's	K I
Self-Measuring, (Enterprise) dis 20 Lincoln's Patterndis 60&10	K I
Boss Nos. 1 2 3 1 1 1 1 1 1 1 1 1	I
NUTS AND WASHERS. Square Nuts	. 8
Washers	
Brass and Copperdis 50 9 Malleable (Hammer's)	F
Per dozen	l N
Astor Plaiting Machineeach \$15, dis 20 5 Crown Plaiting Machinesdis 25 5 6 in., \$6; 10 in. \$8 each.	B
Bench First Quality dis an S	C
Bench, Second Quality dis 25 % Molding dis 15 % Bailey's (Stanley R. & L. Co.) New list, Jan.	B
1879 dis 20&10 % The Stanley (S. R. & L. Co.) new list, Jan. The Stanley (S. R. & L. Co.) new list,	BB
Innuary stan	13
Plane Irons, Butcher's. dis 20% to 8 Plane Irons, Auburn Tool Co. dis 20% Plane Irons, Auburn Tool Co. dis 20% Plane Iron, Ohio Tool Co. dis 20% Plane Irons, Sandusky Tool Co. dis 20% Plane Irons, Sandusky Tool Co. dis 20% Plane Irons, Sandusky Tool Co. dis 20%	H
Plane Irons, Sandusky Tool Codis 20 %	Si
Button's Patentdis 33½ % Hall's Pat. Compound Lever Cutting Nippers, No. 2, 5 in. \$13 50; No. 4, 7 in., \$21 \$\frac{1}{2}\$ doz.dis 25 \$\frac{1}{2}\$ Gas Pliersdis 50 \$\frac{1}{2}\$	
PLUMBS AND LEVELS.	
Disston's dis 6 % 10 % 10 % 10 % 10 % 10 % 10 % 10 %	Pe
Chapin's Non-adjustable	No No
Standard Rule Co.'s Non- Adjustabledis 65&10 % Pocket Levels	No No No
Standard Rule Co.'s Non-Adjustabledis 65&10 \$ Pocket Levels	No
Barn Door, Iron, Painted	No
B. D. for N. E. Hangers— Small. Med. Large. Per 100 feet	No
RIVETS.	No
Iron and Tinned, new list, Dec. 10, 1881dis 40 % In bulk, new list, Dec. 10, 1881dis 40 % Copper Rivets and Burrsdis 45 %	No
Tron and Tinned, new list, Dec. 10, 1881	No
ROUS. Stair, Brass	No
	An
Chapin's dis 75 % dis 40% 10 %	Pri Bai
Boxwood. Ivory.	No
Self-Heating, Charcoal	Jer J.
Stevens & Co. Miscellaneous dis 50&10 %	Slic Slic
SAND PAPER. Baeder & Adamson's Flint, 00@1/2\$4,50 B r'm.)	Slic
Baeder & Adamson's Flint, 00@1½\$4,50 % r'm. Baeder & Adamson's Flint, 2,2½&35.00 % r'm. Baeder & Adamson's Flint, 2,2½&35.00 % r'm. Baeder & Adamson's Star3,75 % r'm. Baeder & Adamson's Emery % r'm \$6.50@11.50	Am
Baeder & Adamson's Star	Gri
Common SASH CORD	Kir Lip
Silver Braided Lake Hemp	Hu
Silver Braided Lake Drab Cotton, & B. 55c. dis 10 % Silver Lake Cable Laid, Bengall Unbleached	Stea
J. Bartle's Sand, Flint and Emery Paperdis 3085 \$ SASH CORD. Common	Dot
SAUSAGE STUFFERS ON FILLERS	Hol Bro Wa
Miles	Ros C.

Enterprise Mfg. Codis 25 \$\footnote{M}Monarch	
Enterprise Mig. Co. dis 25 % Monarch. SAWS. dis 40 % Boynton's Lightning Cross Cuts, new lift. dis 40 % Boynton's Circular and Mill. dis 40 % Boynton's Circular and Mill. dis 25 % Boynton's Lightning Hand, Panel and Rip. dis 25 % Disston's Circular dis 40 % Disston's Cross Cut. dis 40 % Disston's Cross Cut. dis 40 % Disston's Hand, Panel, Rip, &c. dis 26 % Hubbard, Bakewell & Co. Circular Saws. dis 40 % 5 Hubbard, Bakewell & Co. Cross Cut. 30c. ft. Hubbard, Bakewell & Co. Cross Cut. 30c. ft. Hubbard, Bakewell & Co. Cross Cut. 30c. ft. Hubbard, Bakewell & Co. Mill Saws. dis 40 % 5 % Hubbard, Bakewell & Co. Mill Saws. dis 40 % 5 % Mubbard, Bakewell & Co. Mill Saws. dis 40 % Mubbard, Bakewell & Co. Mill & Mubbard, Bakewell & Co. Mill & Mill &	
Peace Circular and Mill	Name of Street, or other Designation of the Owner, where the Owner, which the Owner, where the Owner, which
SAW FRAMES. doz \$1.05, dis 10 % Saw Rods \$1.05 dis 10 % Saw Rods \$2.05 Saw Sets. \$2.05	
SAW SBTS. Stillman's Genuine, \$\bar{n}\$ doz \$3.50 and \$5.50 dis 10 \$\frac{1}{2}\$ Stillman's Imitation \$\bar{n}\$ doz \$3.50 and \$5.50 dis 30 \$\lambda to \$\frac{1}{2}\$ Common Lever \$\bar{n}\$ doz \$4.00, dis 30 \$\lambda to \$\frac{1}{2}\$ doz \$5.00, dis 30 \$\lambda to \$\frac{1}{2}\$ dis 15 \$\frac{1}{2}\$ Hammer, Hotchkiss \$\bar{n}\$, \$5.50, dis 50 \$\frac{1}{2}\$ Aiken's Genuine \$\bar{n}\$, 3.00, dis 50 \$\frac{1}{2}\$ oo, dis 50 \$\frac{1}{2}\$ oo, dis 50 \$\frac{1}{2}\$ disen's Imitation \$\bar{n}\$, 500, dis 50 \$\frac{1}{2}\$ disson's \$\frac{1}{2}\$ disson's \$\frac{1}{2}\$ SCALES. Hatch, Counter, No. 171 \$\bar{n}\$ doz \$42, dis 37\bar{n}\$ \$\frac{1}{2}\$ to \$\frac{1}{2}\$ Hatch, Tea, No. 161 \$\bar{n}\$ \$\frac{1}{2}\$ doz \$\frac{1}{2}\$ \$\frac	
Hatch, Counter, No. 171	
Chicago Scale Co. Special dis Fairbanks dis 20 \$ Farrbanks dis 20 \$ Forsyth Scale Go dis 45 \$ Howe's. dis 20 \$ Howe's. dis 20 \$ Chatillon's Grocers' dis 20 \$ Chatillon's Grocers' dis 20 \$ Chatillon's Eureka dis 25 \$ Family Universal dis 30 \$ Family Favorite. dis 30 \$ Family Turnbul's. dis 30 \$ Scale Beams, List of Jan. 12, 1882 dis 30 \$ Scale Beams, List of Jan. 12, 1882 dis 30 \$ Scale Beams, List of Jan. 12, 1882 dis 50 \$ Scale Beams, List of Jan. 12, 1882	
SCRAPERS.	
Douglas Mfg. Co	
Clark's Patent dis 25 % Shepardson dis 25 % SCREWS. dis 25 % SCREWS. dis 25 %	1
SCREWS. SCREWS. SCREWS. Flat Head Iron, list Dec. 27, 80. dis 70 \$ Round Head Iron dis 60 \$ Flat Head Brass dis 60 \$ Flat Head Brass dis 60 \$ Round Head Brass dis 15 \$ Flat Head Blued, add 2½ \$ to net of invoice. Brass and Silver Capped dis 40 \$ Japanned, list of Plain Screws dis 20 \$ Coach, Patent Gimlet Point dis 60 \$ 10 \$ Coach, Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach Common or Lag dis 60 \$ 10 \$ Coach	
Coach, Patent Gimlet Point	The same and the s
Coach, Common or Lag dis 60&10&10 % Bed dis 10 % Machine, Flat Head, Iron dis 50 % Machine, Round Head, Iron dis 50 % Bench, Iron dis 50 % Bench, Iron dis 50 % Bench, Wood, Beach dis 10 % Machine, Round Head, Iron dis 50 % Bench, Wood, Beach dis 20 % Iron dis 20 % Iro	111
SCHEEN FRAMES AND FIXTURES. Standard Window Screens No. 1, \$\bar{1}\) doz \$\bar{1}\)4, \$\bar{5}\ Door \qquad \text{No. 5, \$\bar{1}\}5; \dis 40\text{810} \\\ Window Corner Irons, No. 3, doz. st's, \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	We deed look least least
Porter's Patent Window and Door Screen Frames: PER DOZ. SETS. In Im. Bl'k White Welpus	200
No. 20 \$ \$3.25 \\ No. 21 2.25 4.00 \\ No. 22 5.50 6.75 \\ No. 23 6.00 7.50 \\ No. 30 9.00 11.00 \\ No. 30 9.00 11.00 \\ No. 30 1.00 1.00 \\ No. 30 1.00 1.00 1.00 \\ No. 30 1.00 1.00 1.00 1.00 1.00 1.00 1.00	8
No. o. Corners and Sticks complete for a three-foot window, & doz sets	1
lo. 13/2. " R doz sets, Bronzed,	•
10. 4½. "Bronzed, \$1.20; Nickel, \$3.00 or Door, \$4 doz sets, Bronzed, \$2.00; Nickel, \$4.00 loor, \$4 doz sets, Bronzed, \$2.00; Nickel, \$4.00 loor, \$4 doz sets, Bronzed, \$5.75; Nickel, \$15.00	
0. 3. "	
SHEARS AND SCISSORS.	i
iding Door, R. & E. list	
SHOVELS AND SPADES. D	
mes, New List, July 1, 1887	
Silver Plated dis 40, 1085 \$	1
Rogers & Brodis 40, 10&5 \$	

rise Mfg. Codis 25 5	SILVER PLATED HOLLOW WARE.
Chdis 40 5	Wm. Rogers Manf. Codis 40, 1585 5
on's Lightning Cross Cuts, new list dis 40 s on's Circular and Mill dis 40 s	SPOONS.
on's Ice	Britannia
i's Milldis 40 %	Tinned Iron Bastingdis 65 9
18 Mill	STONE.
rd, Bakewell & Co. Circular Sawsdis 40&5 \$rd, Bakewell & Co. Cross Cut30c. ft.	Hindostan No. 1, 5c.; Axe, 8cnet
rd, Bakewell & Co., One-Man's, X Cut dis 40&5 \$	Hindostan No. 1, 5c.; Axe, 8c
d, Bakewell & Co., Mill Sawsdis 40&5 \$ Circular and Milldis 40 \$	Washita Stone, SlipsNo. 1, \$\bar{\pi}\$ \bar{\pi}\$, 45c. net Arkansas\$1.50 \$\bar{\pi}\$ \bar{\pi}\$. net
d, Bakewell & Cop, Mill Saws dis 40% j:rcular and Mill dis 40% Hand, Panel and Rip dis 25% ross Cuts dis 35% sand Saws, all widths dis 10% r Cross Cut, with handles dis 25% rock to \$6 Hack Saws and Blades dis 26%	SQUARES.
Band Saws, all widthsdis 10 € r Cross Cut, with handlesdis 25&10&10 €	Steel
CAN PRANCE	Nickel Platedadd \$2.50&\$4 \$3 doz net.
	Disston's Try Square and T Bevelsdis 40 \$
SAW SETS.	TACKS, BRADS, &C.
SAW SHTS. 's Genuine,	New List, Sept. 1, 1882. Tinned Swedes Tacksdis 30 \$ 1
	Tinned American Tacksdis 30 \$
Genuine	Swedes Tacks, all kinds
sdis 20 %	Copper Tacks and Nails dis 35 % L Hungarian Nails dis 35 % = Gimp and Lace Tacks dis 30 % = Gimp and Lace Tacks, Tinned dis 30 % Finishing Nails dis 25 % 5
sNo. 1, \$15; No. 5, \$52; dis 35&10 % SCALES.	Gimp and Lace Tacksdis 30 %
Tea. No. 161 3 doz \$15.00. dis 37/28:10 \$	Finishing Nails
latform, Keystone\$6, dis 45 % Scale CoSpecial dis sdis 20 %	
ks'dis 20 ≸ Scale Godis 45 €	Brush Tacks
Scale Go	Brush Tacks dis 20 % Leathered Carpet Tacks dis 20 % Leathered Carpet Tacks dis 20 % Cigar Box Nails dis 20 % Chair Nails dis 20 % Double-pointed Tacks dis 40 % 5 %
n's Eurekadis 25 % Universaldis 50 %	Double-pointed Tacksdis 40&5 \$
Favoritedis 30 \$	TAP BORERS.
l'urnbull'sdis 30 \$ ams, List of Jan. 12, 1882dis 50 \$	Common and Ring
SCHAPERS.	
andle	TOBACCO CUTTERS. Enterprise Mfg. Co (Champion)dis 25 %
andle	Wood Bottom \$\pi\$ doz \$12.00, dis 40% 5 \$\frac{8}{2}\$
	Wilson'sdis 35 ≸
Mfg. Co	THERMOMETERS. Tin Case
dfg. Codis 50&10&10 \$ Rule & Level Co's, Var. Hdls dis 50&10 \$	Storm Glasses
Rule & Level Co.'s Black Hdlsdis 40&10 8	TOR CALKS. Winsted
Rule & Level Co's, Var. Hdls., dis 50&10 \$ Rule & Level Co.'s Black Hdls., dis 40&10 \$ dis 33½ \$ atent dis 25 \$ on., dis 25 \$	TRAPS.
	Game, Newhousedis 35 % Game, Oneida Patterndis 60% 10 %
d Iron, list Dec. 27, '82 dis 70 % lead Iron	Game, Blake's Patent
d Brass	Mouse, Round Wire A doz \$2.50, dis 10 \$
Silver Cappeddis 40 \$	Mouse, Catch-em-alive doz \$2.50, dis 10 \$
	Ideal Mouse
ommon or Lag	Game, Blake's Pattern dis 608:10 % Game, Blake's Patent dis 408:10 % Mouse, Wood, Choker \$\text{P}\text{ doz \$\text{\$k\$-\$0}\text{ dis \$408:10}\$} % Mouse, Wood, Choker \$\text{P}\text{ doz \$\text{\$k\$-\$0}\text{ dis \$10}\text{ for \$100\$} % Mouse Cage, Wire \$\text{P}\text{ doz \$\text{\$k\$-\$0}\text{ dis \$10}\text{ % Mouse, Catch-em-alive} \$\text{P}\text{ doz \$\text{\$k\$-\$0}\text{, dis \$10}\text{ \$5\$} \$Cyclon Mouse. \$\text{P}\text{ doz \$\text{\$k\$-\$0}\text{, dis \$10}\text{ \$5\$} \$Cyclon Mouse. \$\text{P}\text{ doz \$\text{\$k\$-\$0}\text{, dis \$10}\text{ \$5\$} \$Cyclon Mouse, per doz \$\text{\$k\$-\$0}\text{, \$\text{\$k\$-\$0}\text{, doz \$\text{\$k\$-\$0}\tex
Kound Head, Irondis so %	TROWELS.
ondis 50&10 \$ ood, Beach	Lothrops' Brick and Plasteringdis 25 \$ Reed's Brick and Plasteringdis 15 \$
ood, Hickorydis 20&10 %	Disston's Brick and Plasteringdis 20 % Clement & Maynard'sdis 20 %
il, Sargent's	Worrall's Brickdis 20 \$ Brades & Walby'sdis 20 \$
il, Am. Screw Co., list Jan. 1, '81dis 70 % Ison's)dis 25 %	Gardendis 55 %
SCREEN FRAMES AND FIXTURES.	TRUCKS (WARBHOUSE, &C.)
Window Screens No. 1, \$\mathcal{H}\) doz \$4; 2, \$5 Door "No. 5, \$15; dis 40&10 \$	Handy Truck\$2.50 net Penfield Block Co.' list, 1882dis 35 %
Door "No. 5, \$15; dis 40&10 % Window Corner Irons, No. 3, doz. st's, \$2 Door "No. 6, "" \$3	Peerless, with Cogs, No. 3
Door Latches, & dozen, \$3.60dis 50 \$	Eureka, No. 2 🛱 doz 42.00
Patent Window and Door Screen Frames: PER DOZ. SETS.	Solid Box—Wilson'sdis 50 \$
White. Walnut.	" Trenton
\$3.25 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Bench—Wilson Sdis 45 %
6.00 7.50	Trenton
9.00 11.00	" Bonney'sdis 35 %
orners and Sticks complete for a ot window, & doz sets	Well Wheels dis 60&10&10 %
t for Window, A doz sets Bronzed,	MILE TIPE DOG
\$2.40; Nickel, \$5.62 W doz sets, Bronzed, \$3.25; Nickel, \$7.50	THE WM. ROG
doz sets, Bronzed	
\$4.00; Nickel, \$8.00 or door, & doz sets,	Cilvar Distad
Bronzed, \$1.20; Nickel, \$3.00 or Door, & doz sets,	Silver-Plated *
Bronzed, \$2.00; Nickel, \$4.00 Door, \$\mathread doz sets, Bronzed.	
Door, P doz sets, Bronzed, \$6.75; Nickel, \$15.00	We manufacture a com-
" Adoz sets, Bronzed,	

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olete line of Silver-Plated Table Ware of all descripions, and should be pleasd to send our Price-List or Catalogue to any relible dealer.

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Girard Standard
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Agl.
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andles. Two king Saw stoping table, for axe, mattock, sol pick, or any other oval, flat, straight or bent andles. Capacity, 25 to 30 dozen axe; or 35 to 40 oz n-sledge handles.

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One combined Throater and Trimmer, for handles.
One Trimning Saw.

Ne, &c. Capacity, 100 dozen augur handles.
One combined Throater and Trimmer, for handles.
One Frimin ing Saw.
One Spoke Planer and Throater.
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One Cut-off Saw.
One Cut-off Saw.
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One Narrow Double Grinder to carry two six inch sand belts.
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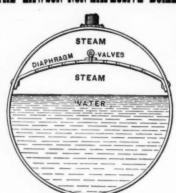
One Lot of Patterns, consisting of straight axe,
ent axe, railroad pick, coal pick, mattock sledge,
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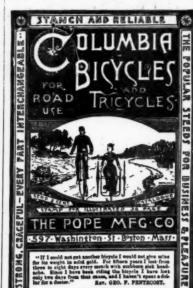
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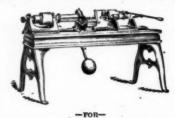
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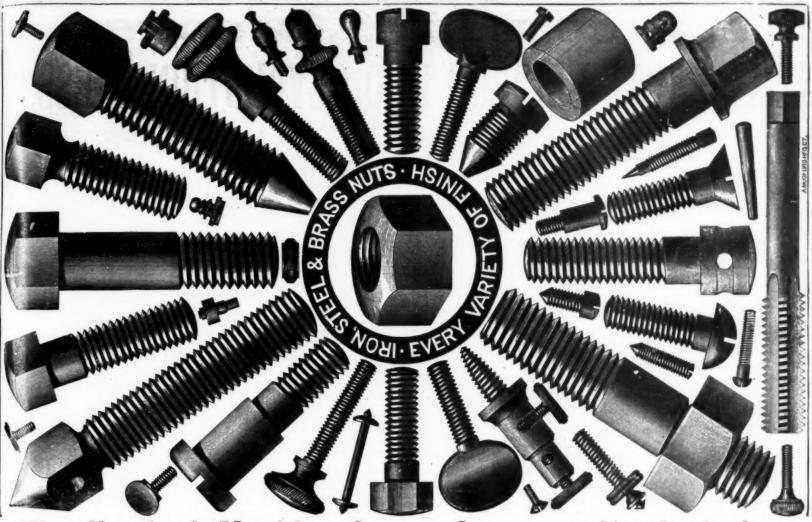
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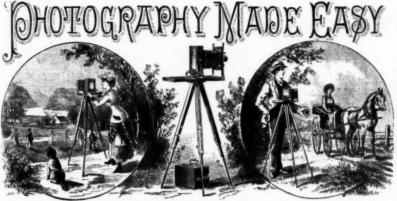
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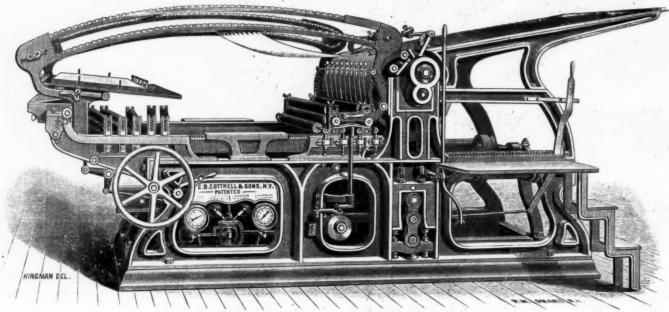
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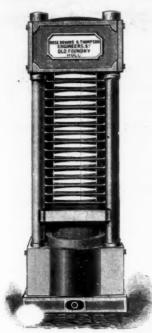
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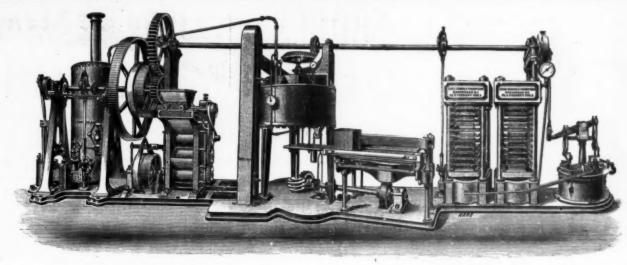
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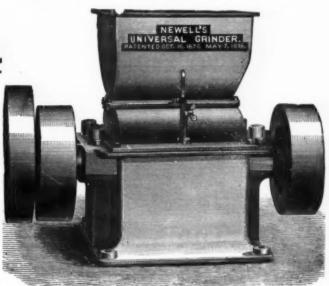
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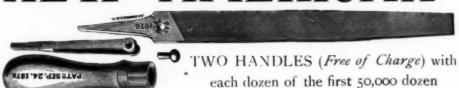


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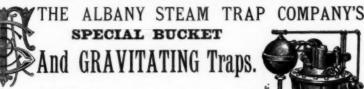
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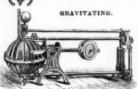
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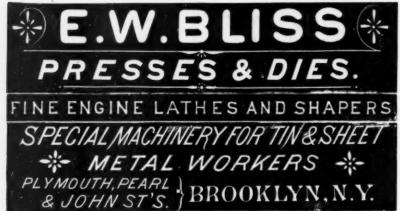
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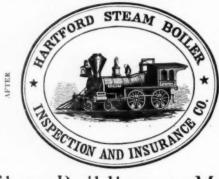
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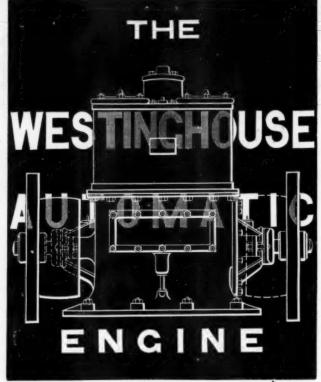


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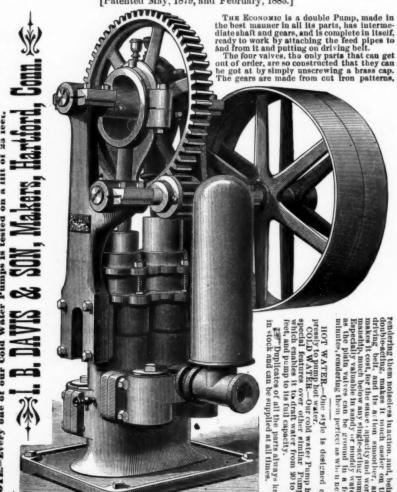
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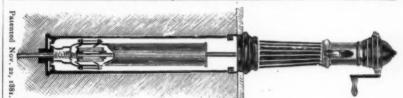
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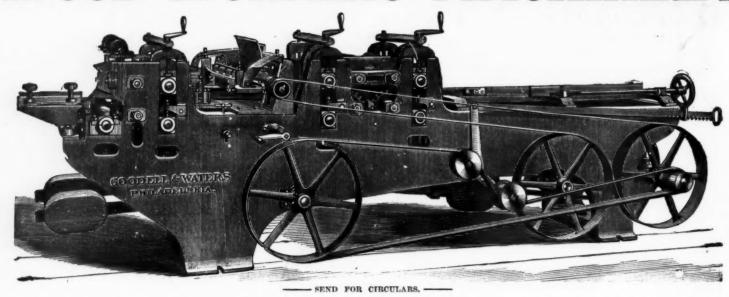
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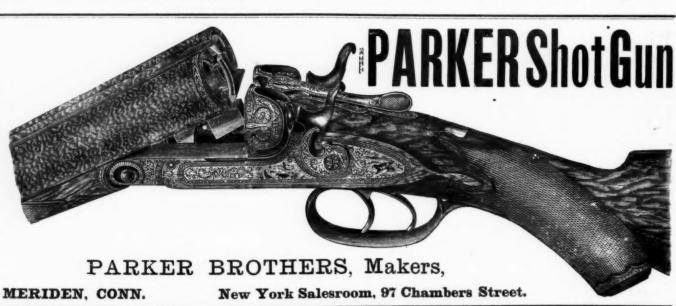
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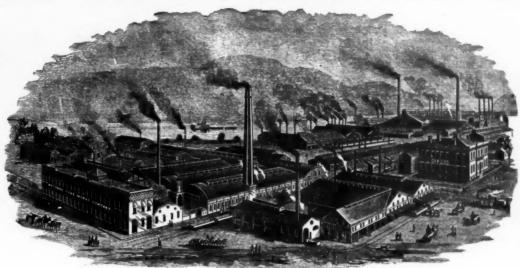
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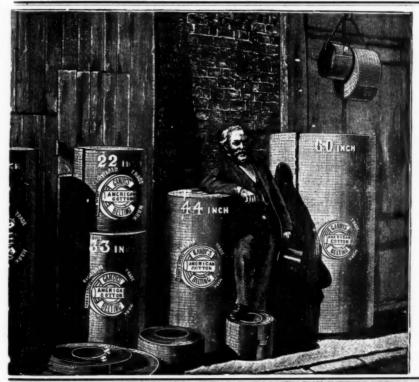
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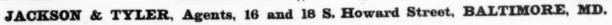
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